AV RECEIVER

RX-V350/HTR-5730

SERVICE MANUAL

RX-V350/HTR-5730

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.
It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

■ CONTENTS

このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.

100883

YAMAHA

YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

■ SELF DIAGNOSIS FUNCTION (DIAG)

There are 15 DIAG menu items, each of which has sub-menu items.
Listed in the table below are menu items and sub-menu items.
Note that not all menu items listed will apply to the models covered in this service manual.

No	DIAG menu		sub-menu
1	DSP THROUGH	1.ANALOG BYPAS	1. ANALOG BYPASS
			2. YSS 0dB
			3. YSS Presence 0dB
			4. YSS FULL BIT
			5. YSS FULL BIT P
2	RAM THROUGH	2.RAM 0dB	RAM 0dB
3	DOLBY PRO LOGIC	3.PRO LOGIC I	1. PRO LOGIC I
			2. PRO LOGIC II
			3. Neo:6 (Not applied to these models)
4	SPEAKERS SET	4.FRNT:SML 0dB	1. FRONT: SMALL 0dB
			2. CENTER: NONE
			3. LFE/BASS: FRONT
			4. PRESENCE MIX: 5ch
			5. SURROUND B power (Not applied to these models)
			6. Tone Control Flat
			7. Tone Control +10dB
			8. Tone Control -10dB
5	HP Test	5.FRONT12dB	1. FRONT 12 dB
			2. FRONT 15 dB
6	OTHER INPUT	6.EXTERNAL DEC	EXTERNAL DECODER
7	DISPLAY CHECK	7. VFD CHECK	1. VFD CHECK (Initial display)
			2. VFD DISP OFF (All segments OFF)
			3. VFD DISP ALL (All segments ON 100%)
			4. VFD DIMMER (All segments ON 50%)
			5. CHECKED PATTERN (ON in lattice)
8	MANUAL TEST	8. TEST ALL	1. TEST ALL
			2. TEST FRONT L
			3. TEST CENTER
			4. TEST FRONT R
			5. TEST SURROUND R
			6. TEST SURROUND C (Not applied to these models)
			7. TEST SURROUND L
			8. TEST LFE
9	FACTORY PRESET	9. PRESET INHI	1. PRESET INHIBITED (memory initialization inhibited)
			2. PRESET RESERVED (memory initialized)
10	AD DATA CHECK /FAN TEST	DC: 23%PS: 16%	1. DC/PS (protection indication)
			2. THM/Fan
			3. REC-OUT (Not applied to these models)
			4. IMP SW/POWER LIMIT
			5. K0/K1 (panel key)
			6. FAN DRIVE TEST: HIGH (Not applied to these models)
			7. FAN DRIVE TEST: MID (Not applied to these models)
			8. FAN DRIVE TEST: LOW (Not applied to these models)

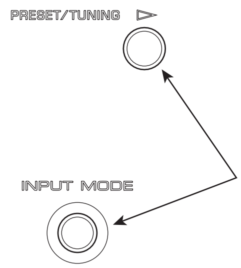
RX-V350/HTR-5730

No	DIAG menu		sub-menu	
11	IF STATUS	IS1:2200020000	1. INSIDE STATUS 1	(5 Byte)
			2. INSIDE STATUS 2	(3 Byte)
			3. CHANNEL STATUS 1	(5 Byte)
			4. CHANNEL STATUS 2	(5 Byte)
			5. CHANNEL STATUS 3	(5 Byte)
			6. CHANNEL STATUS 4	(5 Byte)
			7. CHANNEL STATUS 5	(4 Byte)
			8. BSI (YSS) 1	(5 Byte)
			9. BSI (YSS) 2	(5 Byte)
			10. BSI (YSS) 3	(5 Byte)
			11. BSI (YSS) 4	(4 Byte)
			12. BSI (CS) 1	(5 Byte)
			13. BSI (CS) 2	(5 Byte)
			14. BSI (CS) 3	(5 Byte)
			15. BSI (CS) 4	(5 Byte)
			16. BSI (CS) 5	(1 Byte)
			17. YSS938-1	(5 Byte)
			18. YSS938-2	(5 Byte)
			19. YSS938-3	(4 Byte)
			20. SECOND DECODER	(3 Byte)
			21. Mute Trigger	(5 Byte)
12	DSP RAM CHECK	YSS BUS:NoEr	1. YSS938 BUS CHECK	
			2. PLD/SRAM BUS CHECK	
13	SD DL CODE	RDV:XXXXXXXX	1. ROM DATA Version	
			2. TOC Area 0	
			3. TOC Area 1	
			4. TOC Area 2	
			5. TOC Area 3	
			6. TOC Area 4	
			7. TOC Area 5	
			8. Sum check Area 0	
			9. Sum check Area 1	
			10. Sum check Area 2	
			11. Sum check Area 3	
			12. Sum check Area 4	
			13. Sum check Area 5	
14	SOFT SWITCH	14.SW :PCB	1. SW MODE	
			2. MODEL SETTING	
			3. TUNER DESTINATION	
			4. RDS EXIST	
			5. ZONE 2 EXIST	
			6. VIDEO FORMAT	
15	ROM VERSION/CHECK SUM/ PORT	VER. XXXXX	1. VERSION	
			2. CHECK SUM ALL/PROGRAM	
			3. PORT	
			4. AAC PORT	

• Starting DIAG

Press the "STANDBY/ON" key while simultaneously pressing those two keys of the main unit as indicated in the figure below.

Keys of main unit



Turn on the power while pressing these keys.

• Starting DIAG in the protection cancel mode

If the protection function works and causes hindrance to trouble diagnosis, cancel the protection function as described below, and it will be possible to enter the DIAG mode. (The protection functions other than the excess current detect function will be disabled.)

Press the "STANDBY/ON" key while simultaneously pressing those two keys indicated in the figure above. At this time, keep pressing those two keys for 3 seconds or longer.

In this mode, the "SLEEP" segment of the FL display of the main unit flashes to indicate that the mode is DIAG mode with the protection functions disabled.

CAUTION!

Using this product with the protection function disabled may cause damage to itself. Use special care for this point when using this mode.

• Canceling DIAG

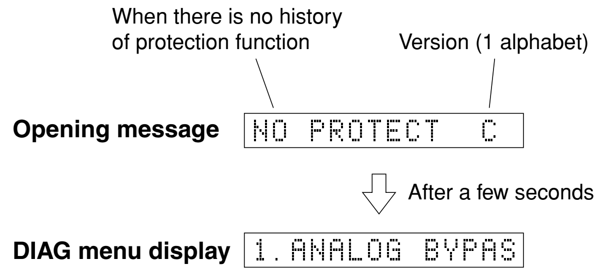
[1] Before canceling DIAG, execute setting for PRESET of DIAG menu No.9 (Memory initialization inhibited or Memory initialized).
* In order to keep the user memory stored, be sure to select PRESET INHIBITED (Memory initialization inhibited).

[2] Turn off the power by pressing the "STANDBY/ON" key of the main unit.

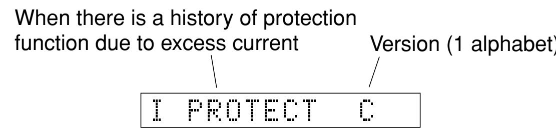
• Display provided when DIAG started

The FL display of the main unit displays the protection function history data and the version (1 alphabet) and the DIAG menu [sub-menu (ANALOG BYPASS) of DIAG menu No.1 DSP THROUGH] a few seconds later.

When there is no history of protection function:



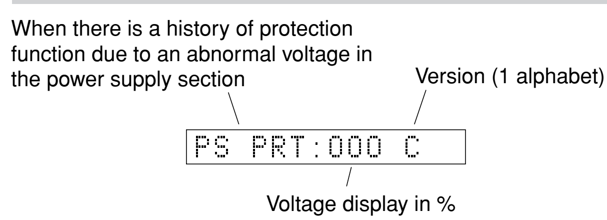
When there is a history of protection function:



Cause: An excessive current flowed through the power amplifier.
Supplementary information: As the current through the power transistor is detected, the abnormal channel can be identified by checking the current detect transistor.

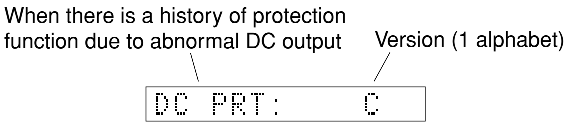
Turning on the power without correcting the abnormality will cause the protection function to work immediately and the power supply will instantly be shut off.

Note)
- Applying the power to a unit without correcting the abnormality can be dangerous and cause additional circuit damage.
- The output transistors in each amplifier channel should be checked for damage before applying any power.
- The amplifier current should be monitored by measuring across the emitter resistors for each channel.



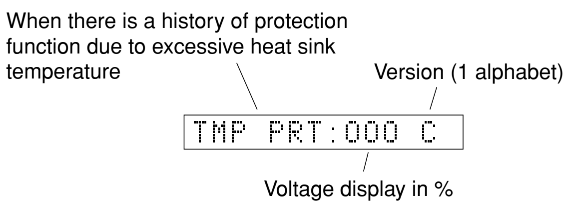
Cause: The voltage in the power supply section is abnormal.
Supplementary information: The abnormal voltage is displayed in % based on 5V as 100%.

Turning on the power without correcting the abnormality will cause the protection function to work 1 second later and the power supply will be shut off.



Cause: DC output of the power amplifier is abnormal.

Turning on the power without correcting the abnormality will cause the protection function to work 3 seconds later and the power supply will be shut off.



Cause: The temperature of the heat sink is excessive.
Supplementary information: The abnormal voltage is displayed in % based on 5V as 500%.

Turning on the power without correcting the abnormality will cause the protection function to work 1 second later and the power supply will be shut off.

* Additional causes of protection can be due to loose connections, associated components, CPU, etc.
* For the protection voltage value, refer to DIAG menu No.10 described later.

• History of protection function

When the protection function has worked, its history is stored in memory with a backup. Even if no abnormality is noted while servicing the unit, an abnormality which has occurred previously can be defined as long as the backup data has been stored.
The history of the protection function is cleared when DIAG is cancelled by selecting PRESET RESERVED (Memory initialized) of DIAG menu No.9 or when the backup data is erased.

• Display during menu operation

During the DIAG operation, the function at work is indicated on the FL indicator. The contents displayed during the function operation are described in the later section on details of functions.

• Operation procedure of DIAG menu and SUB-MENU

There are 15 MENU items, each of which has some SUB-MENU items.

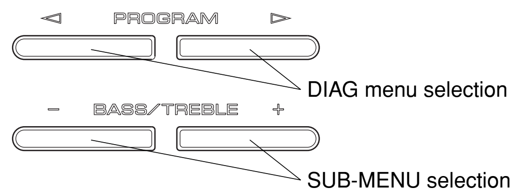
DIAG menu selection

Main unit: Select the menu using ▷ (Forward) and ◁ (Reverse) PROGRAM keys.

SUB-MENU selection

Main unit: Select the sub-menu using - and + BASS/TREBLE keys.

Keys of main unit



• Functions in DIAG mode

In addition to the DIAG menu items, functions as listed below are available.

- Input selection, 6CH input
- Center/Surround/Sub-woofer level adjustment
- Muting
- Power on/off
- Master volume

* Functions related to the tuner and the set menu are not available.
* It is possible to confirm Menu No.11 IF STATUS while keeping the signal process (operation status) of each DIAG menu by using the input mode key of the main unit.

• Initial settings used to start DIAG

The following initial settings are used when starting DIAG. When DIAG is canceled, these settings are restored to those before starting DIAG.

- Master volume: -24dB
- Input: DVD (6CH INPUT OFF)
- Effect level: 0dB
- Audio mute: OFF
- Speaker setting: LARGE / BASS OUT = BOTH
- DIAG menu: DSP THROUGH (1. ANALOG BYPASS)

• Details of DIAG menu

With full-bit output specified in some modes, it is possible to execute 0dBFS output without including the head margin in each channel.

1. DSP THROUGH

Main DSP of YSS938 is selected for Front L/R output.

ANALOG BYPASS

- The signal for L/R is output as it is without passing through the DSP section.

`1.ANALOG BYPAS`

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	- ∞

YSS 0dB

- The signal is output including the head margin.
  Head margin:
  FRONT L/R: 0dBFS, Center: -6dBFS,
  SL/SR: -12dBFS,
  SWFR: Add L/R signal at -20dBFS.

`1.YSS 0dB`

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+11.5 dBm	+11.5 dBm	+11.5 dBm	-0.5 dBm

YSS Presence 0dB

- The Presence CH signal including the head margin is output at the Front CH.
  Head margin:
  FRONT L/R: -6dBFS, Center: 0dBFS,
  SL/SR: 0dBFS, SWFR: Add L/R signal at 0dBFS.

`1.YSS PrsncOdB`

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	- ∞	- ∞	- ∞	- ∞

YSS FULL BIT

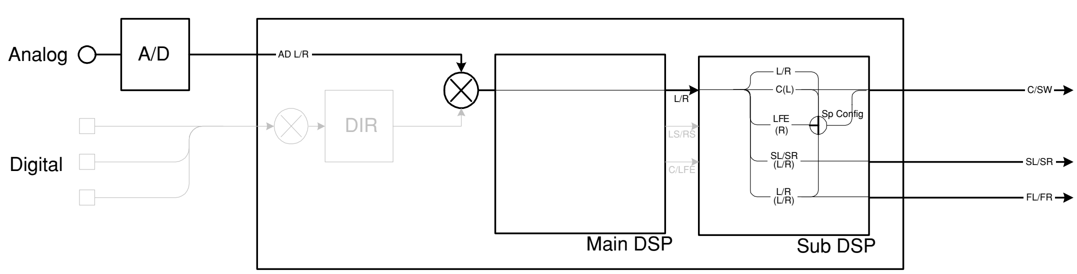
- The signal is output in digital full bit without including the head margin. The SWFR signal is output but not in digital full bit.

`1.YSS FULL BIT`

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+11.5 dBm	+11.5 dBm	+11.5 dBm	-0.5 dBm

DSP THROUGH ~
YSS (Analog)



(Shaded items not used in this example)

YSS FULL BIT P

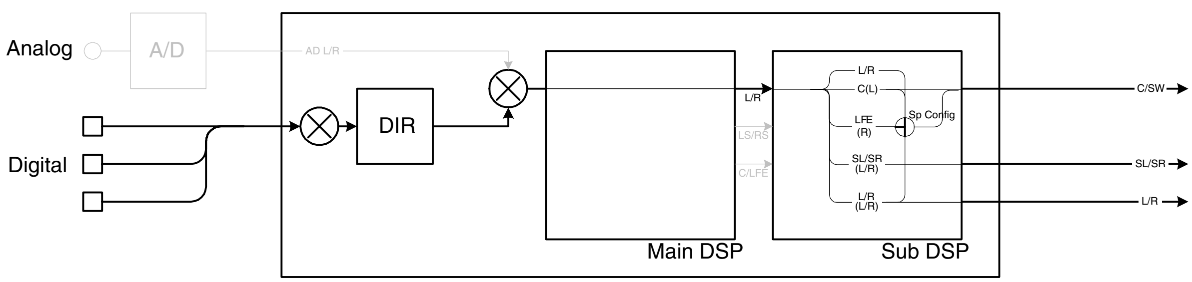
- The Presence CH signal is output in digital full bit at the Front CH.

1.FULL BIT P

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

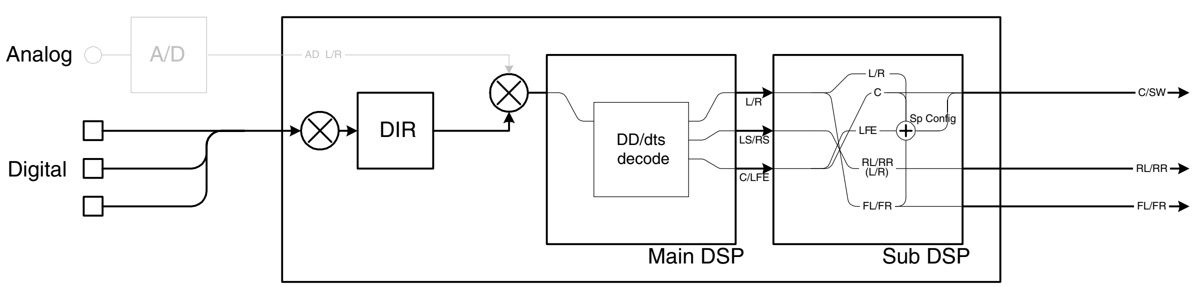
Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	- ∞	- ∞	- ∞	- ∞

DSP THROUGH ~
YSS (PCM)



(Shaded items not used in this example)

DSP THROUGH ~
YSS (DD / dts [EX / ES off])



(Shaded items not used in this example)

2. RAM THROUGH

This function is for YSS938 only.
Only the CT signal is output through the Sub DSP – DRAM.

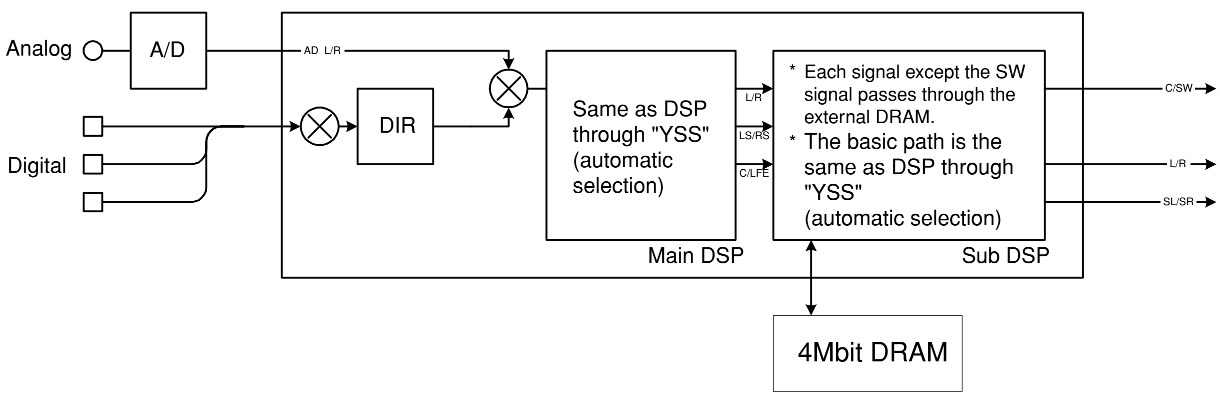
RAM 0dB

`2.RAM 0dB`

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	- ∞	+5.5 dBm	- ∞	- ∞

RAM THROUGH ~
(Auto)



(Shaded items not used in this example)

RX-V350/HTR-5730

3. PRO LOGIC

PRO LOGIC I

3.PRO LOGIC I

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Each ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	-10.5 dBm
Both ch, -20 dBm	+6.0 dB	- ∞	+14.5 dBm	- ∞	- ∞

PRO LOGIC II

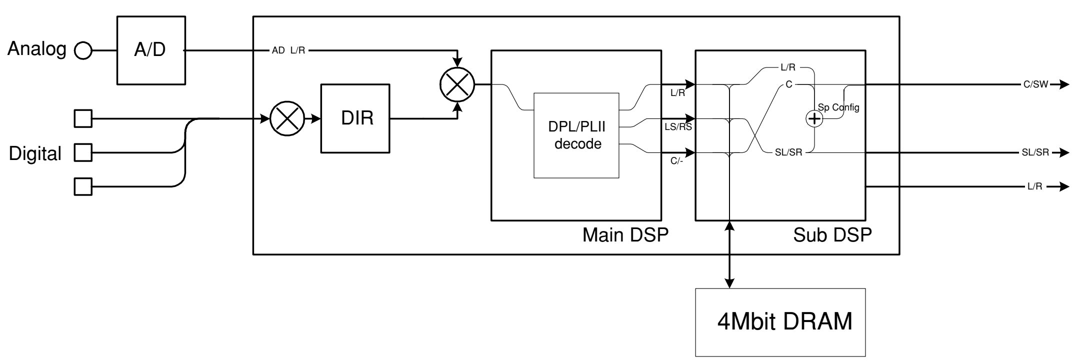
3.PRO LOGIC II

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Each ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	-10.5 dBm
Both ch, -20 dBm	+6.0 dB	- ∞	+14.5 dBm	- ∞	- ∞

The L/C/R/SL/SR signals undergo the Pro-Logic processing and C/SL/SR signals are output through Sub DSP-DRAM. The Main DSP is selected for FRONT L/R output.
Using the sub-menu, it is possible to select PRO LOGIC I, II (Movie). The Auto Input Balance function is always off.
When the Dolby Digital Multi input is used, the function is the same as in the Dolby Digital Normal mode.
The LFE signal is not output when decoding in the PRO LOGIC I, II mode.

Dolby Pro Logic (Auto)



(Shaded items not used in this example)

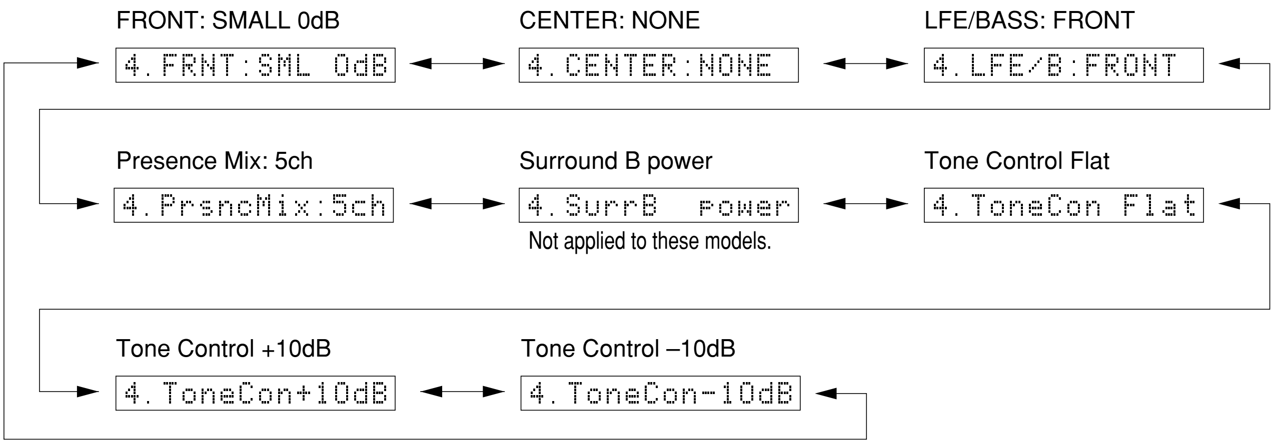
Neo:6
(Not applied to these models.)

3.   Neo:6

4. SPEAKERS SET

The input signal is automatically identified and switched in the priority order of dts → DOLBY DIGITAL → AAC → PCM AUDIO → Analog (A/D) according to the signal detection.

The signals output from the DSP block are the same as 1. DSP THROUGH: YSS 0dB.



The analog switch settings for each sub-menu are as shown in the table below.

	Sub-menu	CENTER SP	SURROUND SP	FRONT SP	FRONT LEVEL	LFE/BASS
1	FRONT: SMALL 0dB	LARGE	LARGE	SMALL	0dB	SWFR
2	CENTER: NONE	NONE	LARGE	LARGE	0dB	BOTH
3	LFE/BASS: FRONT	SMALL	SMALL	LARGE	0dB	FRONT
4	Presence Mix: 5CH	LARGE	LARGE	LARGE	0dB	BOTH

LARGE: This mode is used with a speaker having high bass reproduction performance (a large unit). Full bandwidth signals are output.

SMALL: This mode is used with a speaker having low bass reproduction performance (a small unit). The signals of 90Hz or less are mixed into the channel specified by LFE/BASS.

NONE: This mode is used with no center speaker. The center content is reduced by 3dB and distributed to FRONT L/R.

	Sub-menu	Treble	Bass
6	Tone Control Flat	0 dB	0 dB
7	Tone Control +10dB	+10 dB	+10 dB
8	Tone Control –10dB	–10 dB	–10 dB

Reference data

INPUT: DVD ANALOG (Both ch)

	Sub-menu	Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
				FRONT L/R	CENTER	SL/SR	
1	FRONT: SMALL 0dB	1kHz Both ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	- ∞
2	CENTER: NONE	1kHz Both ch, -20 dBm	+6.0 dB	+8.9 dBm	+7.5 dBm	- ∞	- ∞
3	LFE/BASS: FRONT	50Hz Both ch, -20 dBm	+6.0 dB	- ∞	- ∞	- ∞	+6.5 dBm
4	Presence Mix: 5ch	1kHz Both ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	- ∞
5	Surround B Power (Not applied to these models.)	1kHz Both ch, -20 dBm	+6.0 dB	- ∞	- ∞	- ∞	- ∞
6	Tone Control Flat	1kHz Both ch, -20 dBm	+6.0 dB	+11.5 dBm	+11.5 dBm	+11.5 dBm	-0.5 dBm
7	Tone Control +10dB	1kHz Both ch, -20 dBm	+6.0 dB	+13.4 dBm	+11.5 dBm	+11.5 dBm	-0.5 dBm
8	Tone Control -10dB	1kHz Both ch, -20 dBm	+6.0 dB	+9.6 dBm	+11.5 dBm	+11.5 dBm	-0.5 dBm

RX-V350/HTR-5730

5. HP Test

The signal is output including the head margin.

FRONT 12dB MARGIN

5.FRONT12dB

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

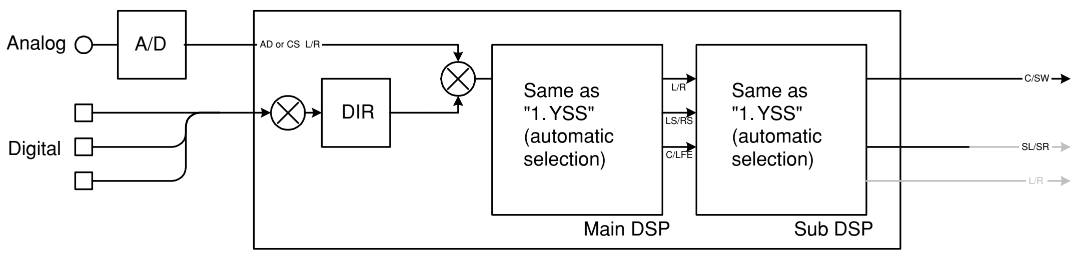
Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+11.5 dBm	- ∞	- ∞	- ∞

FRONT 15dB MARGIN

5.FRONT15dB

Reference data
INPUT: DVD ANALOG
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+14.5 dBm	- ∞	- ∞	- ∞



(Shaded items not used in this example)

6. OTHER INPUT

The signal input through the 6CH INPUT terminals is output.

EXTERNAL DECODER

6.EXTERNAL DEC

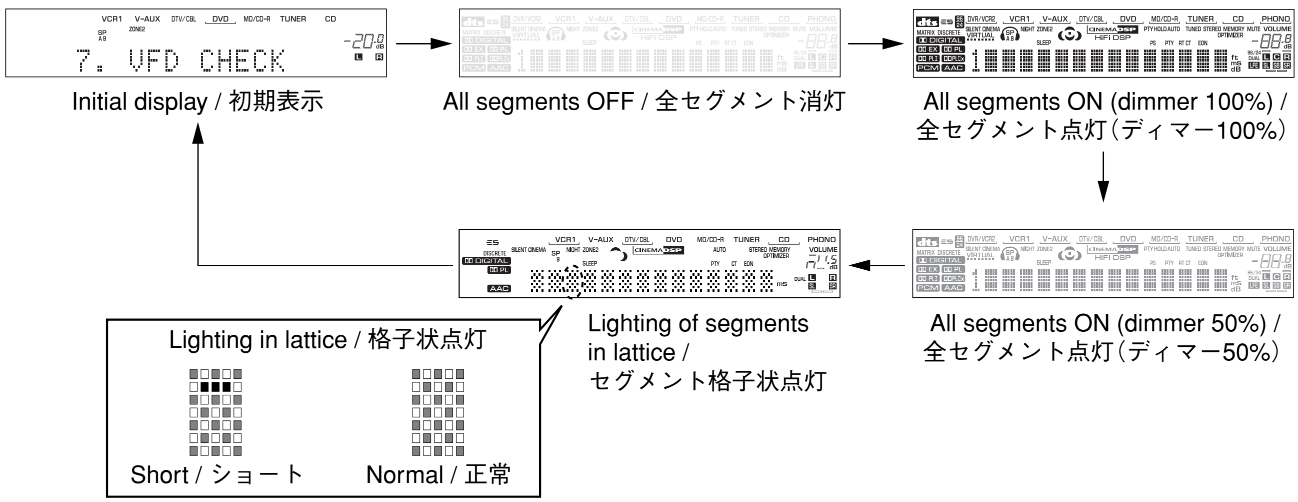
Reference data
INPUT: 6CH INPUT
SWFR: 50Hz, Others: 1kHz

Input level	Volume	SPEAKER OUTPUT (1kHz)			SUBWOOFER OUTPUT (50Hz)
		FRONT L/R	CENTER	SL/SR	
Both ch, -20 dBm	+6.0 dB	+11.5 dBm	+11.5 dBm	+11.5 dBm	-10.5 dBm

7. DISPLAY CHECK

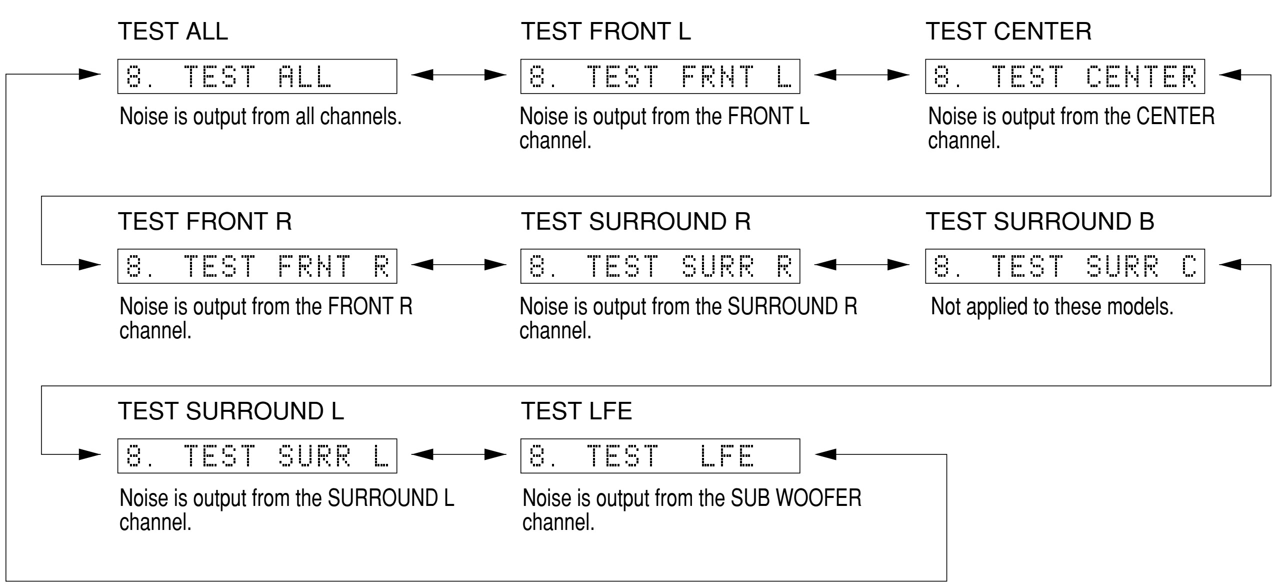
This program is used to check the FL display section. The display condition varies as shown below according to the sub-menu operation. The signals are processed using EFFECT OFF (The L/R signal is output using ANALOG FRONT BYPASS.)
Regarding internal/external synchronization selection of the image signals by the microprocessor control, the internal synchronization is selected when the initial display is provided and when all FL's light up and the external synchronization at any other time.
Also, except when the initial display is provided, 128 characters for confirmation of the OSD driver are displayed as the image output.

Segment conditions of the FL driver and the FL tube are checked by turning ON and OFF all segments. Next, the operation of the FL driver is checked by using the dimmer control. Then a short between segments next to each other is checked by turning ON and OFF all segments alternately (in lattice). (In the example below, the segments in the second row from the top are shorted.)



8. MANUAL TEST

The noise generator built into the DSP outputs the test noise through the channels specified by the sub-menu.
The noise frequency for LFE is 35 to 250 Hz. Other than that, the center frequency is 800Hz.



9. FACTORY PRESET

This menu is used to reserve and inhibit initialization of the back-up RAM. The signals are processed using EFFECT OFF. (The L/R signal is output using ANALOG FRONT BYPASS.)

`9. PRESET INHI`

↕

`9. PRESET RSRV`

PRESET INHIBIT (Initialization inhibited)
RAM initialization is not executed. Select this sub-menu to protect the values set by the user. The production history is not erased using this sub-menu.

PRESET RESERVED (Initialization reserved)
Initialization of the back-up RAM is reserved. (Actually, initialization is executed the next time that the power is turned on.) Select this sub-menu to reset to the original factory settings or to reset the RAM. The production history is not erased using this sub-menu.

CAUTION: Before setting to the PRESET RESERVED, write down the existing preset memory content of the Tuner in a table as shown below. (This is because setting to the PRESET RESERVED will cause the user memory content to be erased.)

Preset group	P1	P2	P3	P4	P5	P6	P7	P8
A								
B								
C								
D								
E								

• PRESET STATIONS / プリセット局

STATION		FM FACTORY PRESET DATA (MHz)	
PAGE	NO.	U, C	A, B, G, E, L, R, T, K
A/C/E	1	87.5	87.5
	2	90.1	90.1
	3	95.1	95.1
	4	98.1	98.10
	5	107.9	108.0
	6	88.1	88.1
	7	106.1	106.1
	8	107.9	108.0

STATION		AM FACTORY PRESET DATA (kHz)	
PAGE	NO.	U, C, R, L	A, B, G, E, T, K
B/D	1	630	630
	2	1080	1080
	3	1440	1440
	4	530	531
	5	1710	1611
	6	900	900
	7	1350	1350
	8	1400	1404

10. AD DATA CHECK/FAN TEST

This menu is used to display the A/D conversion value of the terminals which detects panel keys of the main unit and protection functions in % using the sub-menu. During signal processing, the condition before execution is maintained.

* The figures in the diagram are given as reference only.

DC/PS (protection detection)

DC: DC protection value (Normal value: 17 to 29)
If DC is out of the normal value range, the protection function works to turn off the power.

PS: Power supply voltage protection value (Normal value: 8 to 26)
If PS is out of the normal value range, the protection function works to turn off the power.

`DC: 23%PS: 16%`

THM/Fan (temperature detection/fan drive level)

THM: 500% display of the voltage based on the temperature detected value. Reference voltage : 5V (Normal value: 30 to 147)

Fan: Current fan drive level on the left and the past fan drive history on the right.
(Not applied to these models.)

`THM 43%5Fan_/_`

REC-OUT

Not applied to these models.

`REC-OUT:`

IMP SW/POWER LIMIT (Impedance/power limiter detection)

IMP: 8 or 4 ohm impedance switch setting
(Not applied to these models.)

PL: Power limiter detection value
The voltage value of pin No. 91 of IC242 is displayed, using 5V/256 as standard.
The port output is controlled by using the input voltage value of pin No. 91 of IC242.
When higher than VthH, the port output is changed from H to L.
When lower than VthL, the port output is changed from L to H.

Note:
Vth = Threshold voltage

PORT	VthL	VthH	
No.87	2.88V	3.38V	U, C models
	2.98V	3.48V	A, B, G, E, L, R, T, K models

`IMP:8  PL:255%`

K0/K1 (Panel key of main unit)

A/D of the key fails to function properly when the standard value is deviated. In this case, check the constant of partial pressure resistor, solder condition, etc. Refer to table 1.

`K0:100%K1:100%`

[Table 1]

Display (%)	K0	K1
0 - 6	6CH INPUT	TUNING MODE
7 - 13	INPUT SELECT RIGHT	MEMORY
14 - 21	INPUT SELECT LEFT	PRESET / TUNING ▷
22 - 31	INPUT MODE	PRESET / ◁ TUNING
32 - 41	PROGRAM ▷	A/B/C/D/E
42 - 53	◁ PROGRAM	FM/AM
54 - 63	BASS / TREBLE +	PRESET / TUNING
64 - 72	BASS / TREBLE -	PTY SEEK MODE
73 - 80	STEREO	PTY SEEK START
81 - 88	CONTROL	EON
89 - 95	SPEAKERS	RDS MODE

When K0/K1 menu is selected, keys become non-operable due to detection of the values of all keys. However, it is possible to advance to the next sub-menu by turning the VOLUME of the main unit. When using this function, note that turning the VOLUME more than 2 clicks will cause the volume value to change.

FAN DRIVE TEST (Not applied to these models.)
HIGH

`FAN TEST:HIGH`

FAN DRIVE TEST (Not applied to these models.)
MID

`FAN TEST:MID`

FAN DRIVE TEST (Not applied to these models.)
LOW

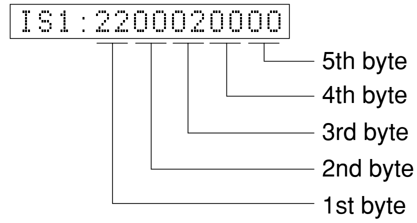
`FAN TEST:LOW`

RX-V350/HTR-5730

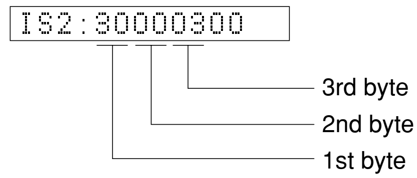
11. IF STATUS (Input function status)

Using the sub-menu, the status data is displayed one after another in the hexadecimal notation.
During signal processing, the status before execution of this menu is maintained.

* Numeric values in the figure example are for reference.



IS1, 2 (Internal status):
Indicates the status information of the microprocessor.



<1st byte> Digital input/output setting value
Upper 4 bits: REC OUT selected /
lower 4 bits: INPUT selected

Value	Choice	Preset name
0	NONE	
1	OPTA	
2	OPTB	D-TV/CBL
3	OPTC	DVD
4	OPTD	
6	OPTF	
8	COAXA	CD
9	COAXB	

<2nd byte> Fs information of reproduction signal

Display	00	01	02	03	04	05	06	0A	0B	0C	0D
Fs (kHz)	Analog	32	44.1	48	64	88.2	96	Unknown NRM	Unknown DBL	Unknown QUAD	Not defined

<3rd byte> Audio code mode information of reproduction signal

Display	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D
Audio Code	1+1	1/0	2/0	3/0	2/1	3/1	2/2	3/2	2/3	3/3	OVER 6.1	MULTI MONO	MULTI PCE	Unknown

<4th byte> Format information of reproduction signal
*1: Analog processing used for digital reproduction is not possible because of a commercial bit or 4-ch audio reason.

Display	Signal format
00	Analog (Unlock)
01	*1
10	PCM Audio
20	Digital Data
21	IEC1937 Data
22	None PCM
23	Unknown
50	dts
51	Red dts
54	dts-ES MATRIX
58	dts-ES DISCRETE
5C	dts-ES (Both flag)
60	AAC
C0	Dolby Digital
C1	D.D. Karaoke
C4	D.D.6.1 (D.D.EX)

<5th byte> Signal processing status information
*2: With digital signals other than 32kHz, 44.1kHz and 48kHz, through processing method is used for reproducible signals.

bit7	MUTE request	bit3	–
bit6	Red dts flashing	bit2	Through & bypass (*2)
bit5	6.1/EX processing	bit1	–
bit4	FULL MUTE (ON: 1)	bit0	dts analog mute

CS1-5: Indicates channel status information of the input signal (IEC60958).

CS1:FFFFFFFFFF --- CS5:FFFFFFFF

BY1-4: Indicates information of the bit stream included in the DOLBY DIGITAL signal.

BY1:FFFFFFFFFF --- BY4:FFFFFFFF

BS1-5: Indicates information of the bit stream included in the dts signal.

BS1:FFFFFFFFFF --- BS5:1B

YS1-3: Indicates device status information of YSS938 (IC601).

* The numeric value in the figure is an example for reference.

YS1:A382000069

Byte No.	Function
1	YSS MUTE Reg
2	YSS MODE Reg
3	YSS IPORT BIT 7-0
4	YSS IPORT BIT 14-8
5	YSS OPORT

YS2:0000000000

Byte No.	Function
1	IEC 1937 Preamble Pc
2	Data Stream Reg
3	Status Reg
4	YSS ZERO Reg
5	MIREG

YS3:6006603D

Byte No.	Function
1	DIR Status
2	DIR fs
3	DIR fs count
4	YSS ZERO BF

SD: CS49329 Unsolicited Messages (AUTODETECT_RESPONSE)
(Not applied to these models.)

SD :FFFFFFFF

MTT: Mute Trigger

MTT:0018001800

Byte No.	Function
1	Mute condition
2	Factor of the last mute
3	Error count of YSS938-FSCNT
4	Mute count by YSS938-FSCNT
5	Error factor of down load of CS49329

12. DSP RAM CHECK

This menu is used to self-diagnose whether or not the bus connection for the YSS938 and the external RAM is made properly.
During signal processing, the status before execution of this menu is maintained.
The address bus and the data bus are checked and the connection condition is displayed.
When no error is detected, "NoEr" appears on display.

YSS938 Bus Check

YSS BUS:NoEr

Display	Description
WAIT	Bus is being checked.
NoEr	No error detected.
DATA	Data bus shorted or open.
RSCS	/RAS or /CAS shorted, or open.
ADDR	Address bus shorted or open.

PLD / SRAM BUS CHECK

SD BUS:None

Display	Description
WAIT	Bus is being checked.
None	No error detected.
EDxx	Data bus shorted or open. (XX: 00-07)
EAxx	Address bus shorted or open. (XX: 00-0E)

13. SD DL CODE

This menu is used to display the data version of the FLASH ROM, TOC information and sum calculated value for the second decoder.

RDV

Displays the data version.

```
RDV:XXXXXXXX
```

TA 0-5

Displays the TOC information.

```
TA0:FFFFFFFF
```

SA 0-5

Displays the sum calculated value.

```
SA0:FFFFFFFF
```

14. SOFT SW

This menu is used to switch the function settings on the P.C.B. through the software so as to activate the product. The protection function follows the P.C.B. settings. When connected to AC or in the maker preset state, the unit is initialized to the P.C. B. setting. Display of each function after initialization varies depending on settings on P.C.B. The operation mode can be changed by selecting the sub-menu and then using the EFFECT key. With SOF selected for the SW mode, the settings become effective.

SW MODE: PCB or SOFT can be selected.

```
14.SW    :PCB
```

MODEL SETTING: V350 or V350T can be selected.
As there is no model to replace with, this mode is used the check for the T destination.

```
14.MODEL:V350
```

TUNER DESTINATION: UC, AKGTE or RL can be selected.

```
14.DEST  :UC
```

TUNER: NOT or EXIST can be selected.

```
14.TUNER:NOT
```

RDS: NOT or EXIST can be selected.

```
14.RDS   :NOT
```

ZONE2: NOT or EXIST can be selected.
(Not applied to these models.)

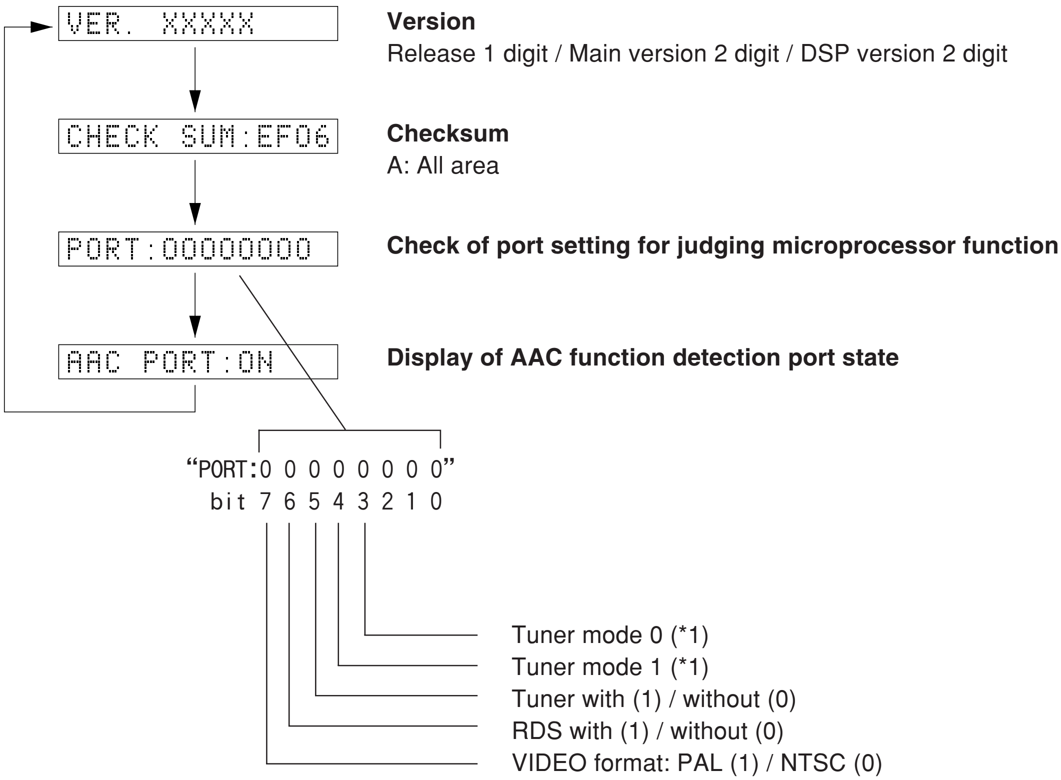
```
14.ZONE2:NOT
```

VIDEO FORMAT: NTSC or PAL can be selected.
(Not applied to these models.)

```
14.VIDEO:PAL
```

15. MICROPROCESSOR INFORMATION

The version, checksum and the port specified by the microprocessor are displayed. The signal is processed using EFFECT OFF. The checksum is obtained by adding the data at every 8 bits for each program area and expressing the result as a 4-figure hexadecimal data.



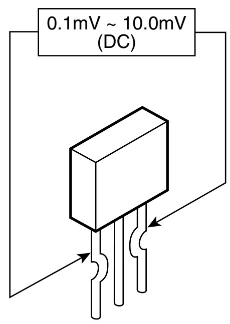
*1

Type	Tuner mode		Port 3	Frequency range	
	1	0	(type 2)	FM	AM
0	0	0	–	76.0-90.0MHz / 100kHz	531-1611kHz / 9kHz
1	1	0	–	87.5-108.0MHz / 50kHz	531-1611kHz / 9kHz
2	0	1	–	87.5-107.9MHz / 200kHz	530-1710kHz / 10kHz
3	1	1	Low	87.5-108.0MHz / 100kHz	530-1710kHz / 10kHz
			High	87.5-108.0MHz / 50kHz	531-1611kHz / 9kHz

■ CONFIRMATION OF IDLING CURRENT

Confirmation of Idling Current of Main (1) P. C. B.

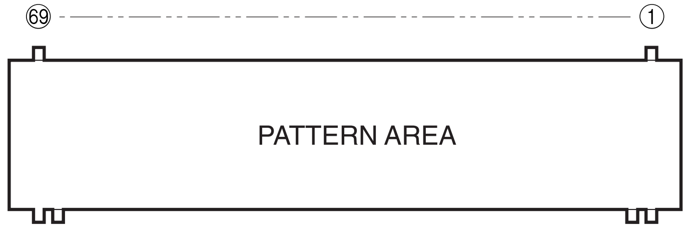
- Right after the power is turned on, confirm that the voltage across the terminals of R157 (Front Lch), R158 (Front Rch), R148 (Center), R156 (Surround Lch), R159 (Surround Rch) are between 0.1mV and 10.0mV.



R157 (FRONT Lch)
R158 (FRONT Rch)
R148 (CENTER)
R156 (SURROUND Lch)
R159 (SURROUND Rch)

■ DISPLAY DATA

● V851 : 16-BT-122GNK (WC173100)



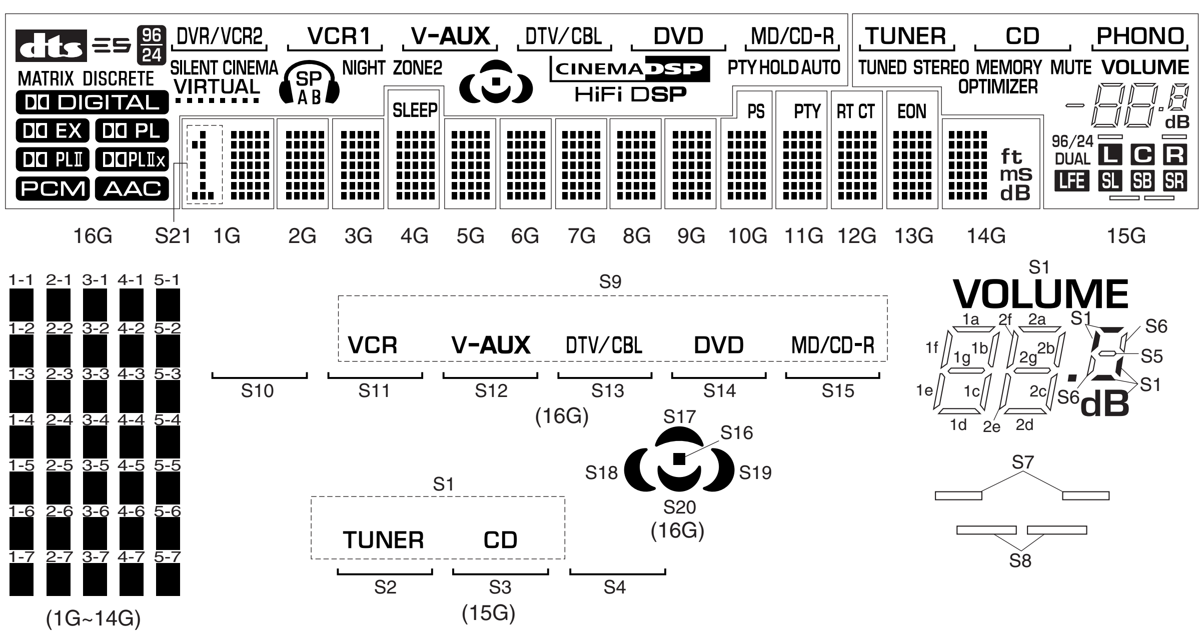
● PIN CONNECTION

Pin No.	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35
Connection	F2	F2	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31

Pin No.	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	P32	P33	P34	P35	P36	P37	P38	NX	NX	NX	NX	NX	NX	NX	16G	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1

Note : 1) F1, F2 ..... Filament 2) NP ..... No pin 3) NX ..... No extened 4) DL ..... Datum line 5) 1G ~ 16G ..... Grid

● GRID ASSIGNMENT

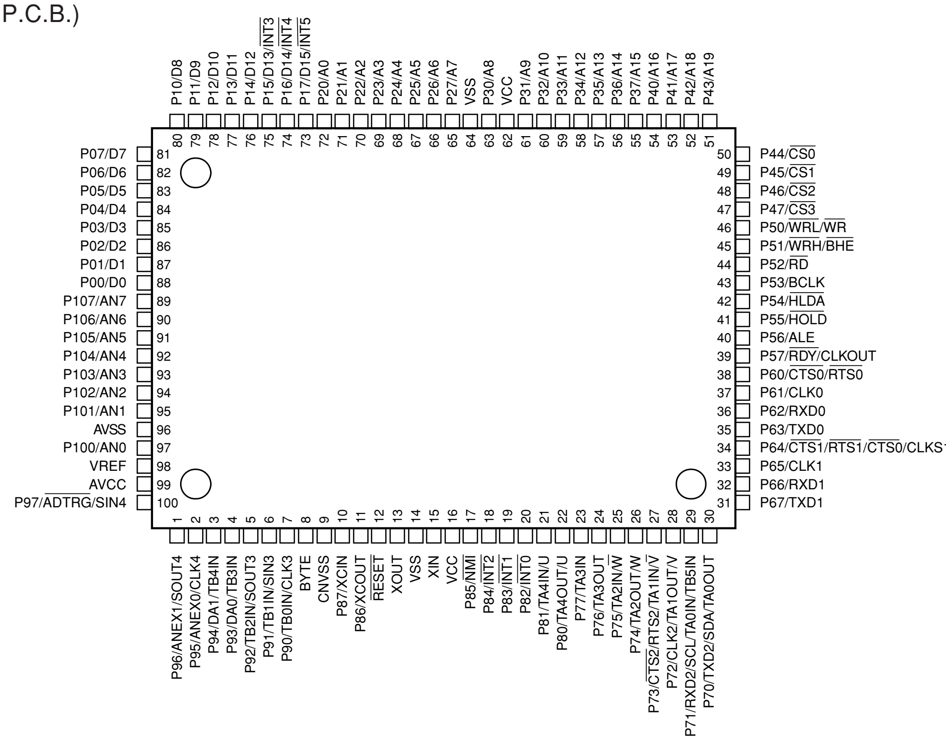


● **ANODE CONNECTION**

	16G	15G	14G	13G	12G	11G	10G	9G~5G	4G	3G	2G	1G
P1	dts	S1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1
P2	ES	S7	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1
P3	MATRIX	S8	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1
P4	DISCRETE	▭	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1
P5	96/24	1a	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1
P6	DD DIGITAL	1b	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2
P7	DD EX	1c	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2
P8	DD PL	1d	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2
P9	DD PLII	1e	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2
P10	AAC	1f	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2
P11	PCM	1g	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
P12	ZONE2	2a	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
P13	VIRTUAL	2b	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3
P14	SILENT CINEMA	2c	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3
P15		2d	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3
P16	SP	2e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4
P17	A	2f	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
P18	B	2g	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
P19	HiFi DSP	S5	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4
P20	CINEMA DSP	S6	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4
P21	S16	PHONO	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
P22	S17	S2	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5
P23	S18	S3	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5
P24	S19	S4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
P25	S20	STEREO	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5
P26	S9	TUNED	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6
P27	DVR/VCR2	MEMORY	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6
P28	1	MUTE	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6
P29	S10	OPTIMIZER	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6
P30	S11	96/24	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6
P31	S12	DUAL	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7
P32	S13	LFE	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7
P33	S14	L	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7
P34	NIGHT	C	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7
P35	DD PLIIx	R	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7
P36	S15	SL	ft	EON	RT	PTY	PS	–	SLEEP	–	–	S21
P37	AUTO	SB	mS	–	CT	–	–	–	–	–	–	–
P38	PTY HOLD	SR	dB	–	–	–	–	–	–	–	–	–

■ IC DATA

IC242: M30626FHPFP (MAIN P.C.B.)
16bit µ-COM (Main CPU)



No.	Port No.	Function name	I/O	Detail of function
1	SOUT4	DTFD	SO	FL Driver TxD
2	CLK4	CKFD	SCK	FL Driver CLOCK
3	P94	/BLK	O	FL Driver OFF
4	P93		I	Open (Unconnected)
5	SOUT3	SDM	SO	YSS938 TxD
6	SIN3	SDD	SI	YSS938 RxD
7	CLK3	YSSCK	SCK	YSS938 CLOCK
8	BYTE	BYTE	VSS	Vss: when single chip mode is used
9	CNVss	CNVss	Vss/Vcc	Vss: when single chip mode is used, Vcc: when flash writing is used
10	P87	CSY	O	YSS938 CE
11	P86	/ICD	O	YSS938/DA/AD/CODEC/DEM
12	RESET	RESET	I	Reset
13	Xout	Xout		Oscillator Out
14	Vss	Vss	Vss	µ-COM Ground
15	Xin	Xin	16MHz	Oscillator in
16	Vcc	Vcc	Vcc (BU)	µ-COM power supply, +5V
17	NMI	NMI	Vcc (BU)	Connect to Vcc because it is unused.
18	INT2	INT938	INT	YSS938 IPINT/MUTE/DIR
19	INT1	PSW	INT	Standby SW Input
20	INT0	REM1	INT	Remote Control Input
21	P81		I	Open (Unconnected)
22	P80		O	Open (Unconnected)
23	P77	/HP	I (IPU)	Headphone Detect
24	P76	VRA	I (IPU)	Volume Rotary A
25	P75	VRB	I (IPU)	Volume Rotary B
26	P74	CSN	O	Chip Select for DAC (Unconnected)
27	P73	/ICCDK	O	CODEC Reset
28	CLK2		O	Open (Unconnected)
29	P71		O	Open (Unconnected)
30	TXD2		O	Open (Unconnected)
31	TXD1	TXDF	FLASH	Flash ROM Serial Write Data Transmission
32	RXD1	RXDF	FLASH	Flash ROM Serial Write Data Reception
33	CLK1	CLKF	FLASH	Flash ROM Serial Clock
34	P64	BSY	FLASH	Flash BUSY Signal Output
35	TXD0	CSR	SO	CS493x RxD (Unconnected)
36	RXD0	CST	SI	CS493x TxD (Unconnected)
37	CLK0	CSC	CLK	CS493x Clock (Unconnected)
38	P60	/CEEEP	O	EEPROM CE
39	P57	SDTR	O	RDS/OSD TxD
40	P56	SDRR	SI/I (IPU)	RDS RxD / Frequency SW (Dest R)
41	P55	/EMP	GND	For Flash Writing (LO)
42	P54	SCKR	SCK	RDS/OSD Clock
43	P53	/CSCS	O	CS493x CS (Unconnected)

RX-V350/HTR-5730

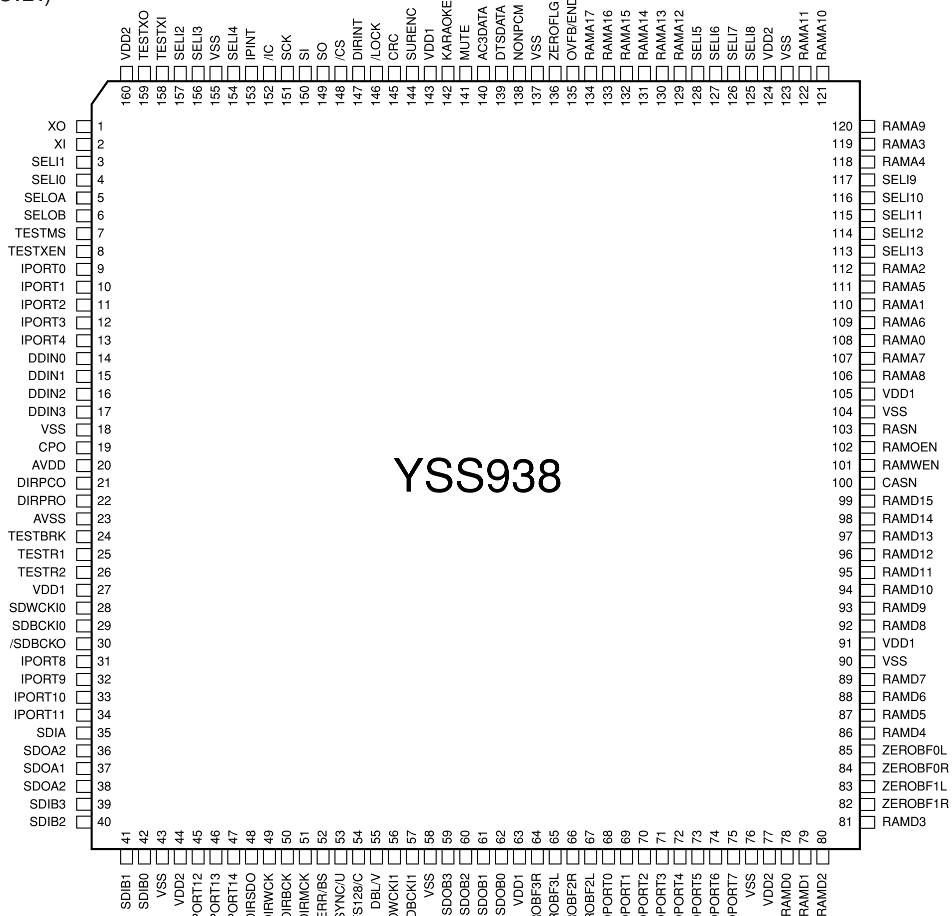
IC242: M30626FHPFP (MAIN P.C.B.)
16bit µ-COM (Main CPU)

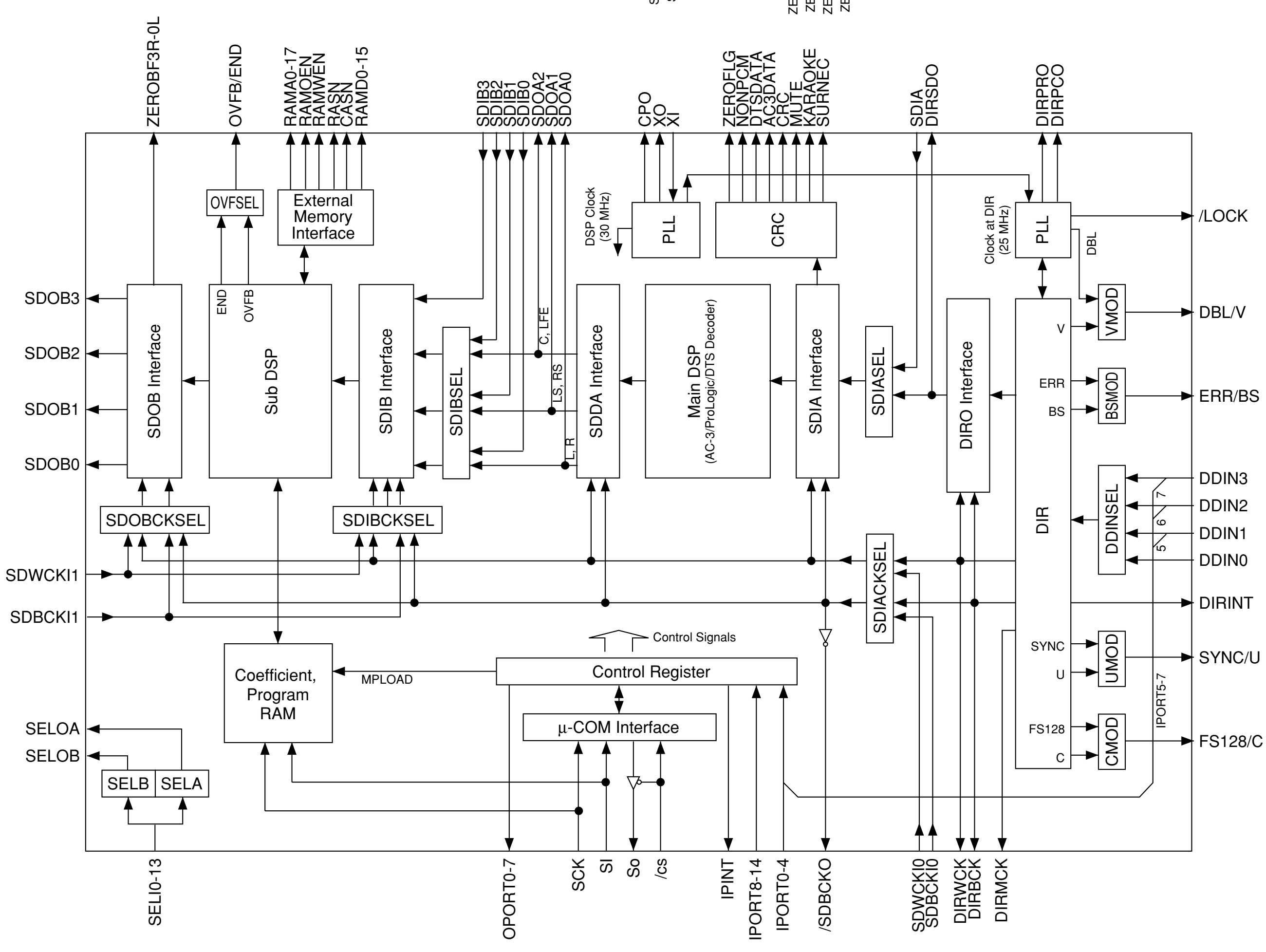
No.	Port No.	Function name	I/O	Detail of function
44	P52	/ICCS	O	CS493x Reset (Unconnected)
45	P51	/CSPLD	O	Digital External Control IC CE (Unconnected)
46	P50	/CE	I	For Flash Writing (HI)
47	P47	CSINT	I/O	CS-DSP INT/ABOOT (Unconnected)
48	P46	/FMT	O	Mute Front
49	P45	/CMT	O	Mute Center
50	P44	/SMT	O	Mute Surround
51	P43	/MTSW	O	Mute LFE
52	P42	/CRY	O	Center SP Relay Output (Unconnected)
53	P41	/HPRY	O	Headphone SP Relay Output
54	P40		O	Open (Unconnected)
55	P37	GAIN	O	Gain
56	P36	BD_MUTE	O	BD3816 Mute
57	P35	HPF	O	HPF
58	P34	CKBD	O	Clock Line for BD38xx System Control
59	P33	DTBD	O	Data Line for BD38xx System Control
60	P32	VIA	O	Video Selector A
61	P31	VIB	O	Video Selector B
62	Vcc	Vcc	Vcc (BU)	µ-COM Power Supply, +5V
63	P30		O	Open (Unconnected)
64	Vss	Vss	Vss	µ-COM Ground
65	P27	/VR1	O	Video Rec Out Selector 1
66	P26		O	Open (Unconnected)
67	P25		O	Open (Unconnected)
68	P24		O	Open (Unconnected)
69	P23		O	Open (Unconnected)
70	P22		O/I	Open (Unconnected)
71	P21		O	Open (Unconnected)
72	P20	RDSE	O/I	RDS Enable, RDS Present/Absent
73	P17	CEP/TUN1	O/I	PLL IC Enable/Destination Discriminate 1
74	INT4	PDET	INT	Power Down Detect INT
75	INT3	5M SW	INT	5M Switch Output
76	P14	SCKP/TUN0	O/I	PLL IC Clock/Destination Discriminate 0
77	P13	SDTP	O	PLL IC TxD
78	P12	SDRP	I (IPU)	PLL IC RxD
79	P11	TUNED	I (IPU)	Tuned
80	P10	/ST	I (IPU)	Tuner/ST
81	P07	TMT	O	Tuner Mute
82	P06	PRY	O	Power Relay Output
83	P05	SRY	O	Surround SP Relay Output
84	P04	FRRY B	O	Front B SP Relay Output
85	P03	FRRY A	O	Front A SP Relay Output
86	P02	PRI	I	Protection Excess Current Detect
87	P01	RIMA	O	Power Limiter A
88	P00		O	Open (Unconnected)
89	AN7	MODEL	AD	Connection Discriminate
90	AN6	PRD	AD	Protection DC Detect
91	AN5	PREMT	AD	Power Limiter Detect
92	AN4	THM	AD	Temperature Detect
93	AN3		AD	Open (Unconnected)
94	AN2	ADKEY0	AD	Key AD Input 0
95	AN1	ADKEY1	AD	Key AD Input 1
96	Avss	Avss	Vss	AD Ground
97	AN0	PRV	AD	Protection Power Supply Voltage Detect
98	Vref	Vref	(+5v)	AD Reference
99	Avcc	Avcc	Vcc (BU)	AD Power Supply
100	P97	CEFD	O	FL Driver CE

Key Input (A-D) Pull-Up Resistance 10 k-Ohms

Ohm	0.0	+1.0k	+1.0k	+1.5k	+2.2k	+3.3k	+4.7k	+6.8k	+10.0k	+22.0k	+47.0k
V	0.0~0.3	~0.65	~1.05	~1.55	~2.05	~2.65	~3.15	~3.6	~1.0	~4.4	~4.75
ADKEY0 (94Pin,AN2)	6CH INPUT	INPUT >	INPUT <	INPUT MODE	PROGRAM >	PROGRAM <	BASS/TREBLE +	BASS/TREBLE -	STEREO	CONTROL	SPEAKERS A/B/OFF
ADKEY1 (95Pin,AN1)	TUNING MODE	MEMORY	PRESET/TUNING >	PRESET/TUNING <	A/B/C/D/E	FM/AM	PRESET/TUNING	PTY SEEK MODE	PTY SEEK START	EON	RDS MODE/FREQ

IC801 : YSS938 (DSP P.C.B.)
DSP





RX-V350/HTR-5730

IC801 : YSS938 (DSP P.C.B.)
DSP

No.	Name	I/O	Function		
1	XO	O	Crystal oscillator connecting terminal		
2	XI	I	Crystal oscillator connecting terminal (24.576MHz)		
3	SELI1	I+	Built-in selector input 1	(AXD)	(Unconnected)
4	SELI0	I+	Built-in selector input 0	(GND)	
5	SELOA	O+	Built-in selector output A	(ISEL)	
6	SELOB	O+	Built-in selector output B	(RSEL)	(Unconnected)
7	TESTMS	I+	Test terminal		(Unconnected)
8	TESTXEN	I+	Test terminal		(Unconnected)
9	IPORT0	I+	General purpose input terminal	(CXDTA)	
10	IPORT1	I+	General purpose input terminal	(CXDTB)	
11	IPORT2	I+	General purpose input terminal		
12	IPORT3	I+	General purpose input terminal		
13	IPORT4	I+	General purpose input terminal		
14	DDIN0	Is	DIR: Digital audio interface data input terminal 0	(ISEL)	
15	DDIN1	Is	DIR: Digital audio interface data input terminal 1/General purpose input terminal		(Pull down)
16	DDIN2	Is	DIR: Digital audio interface data input terminal 2/General purpose input terminal		(Pull down)
17	DDIN3	Is	DIR: Digital audio interface data input terminal 3/General purpose input terminal		(Pull down)
18	VSS		Ground terminal		
19	CPO	A	PLL filter connecting terminal		
20	AVDD		+3.3V power terminal (for DIR)		
21	DIRPCO	A	DIR: PLL filter connecting terminal		
22	DIRPRO	A	DIR: PLL filter connecting terminal		
23	AVSS		Ground terminal (for DIR)		
24	TESTBRK	I+	Test terminal		(Unconnected)
25	TESTR1	I+	PLL initialization signal input terminal for DSP	(/ICD)	
26	TESTR2	I+	Test terminal		(Unconnected)
27	VDD1		+3.3V power terminal (for terminal section)		
28	SDWCKI0	I+	Word clock input terminal for SDIA, SDOA, SDIB, SDOB interface	(WCKG)	(Unconnected)
29	SDBCKI0	I+	Bit clock input terminal for SDIA, SDOA, SDIB, SDOB interface	(BCKG)	(Unconnected)
30	/SDBCK0	O	DIRBCK or SDBCKI0 invert clock output terminal		(Unconnected)
31	IPORT8	I+	IPINT general purpose input terminal		
32	IPORT9	I+	IPINT general purpose input terminal	(NONPCM)	
33	IPORT10	I+	IPINT general purpose input terminal	(NONPCM)	
34	IPORT11	I+	IPINT general purpose input terminal	(MUTE)	
35	SDIA	I	AC-3/DTS bit stream (or PCM) data input terminal to Main DSP	(SDIA)	
36	SDOA2	O	PCM output terminal from Main DSP (C/LFE output)		(Unconnected)
37	SDOA1	O	PCM output terminal from Main DSP (LS/RS output)		(Unconnected)
38	SDOA0	O	PCM output terminal from Main DSP (L/R output)		(Unconnected)
39	SDIB3	I+	PCM input terminal 3 to Sub DSP		(Unconnected)
40	SDIB2	I+	PCM input terminal 2 to Sub DSP		(Unconnected)
41	SDIB1	I+	PCM input terminal 1 to Sub DSP		(Unconnected)
42	SDIB0	I+	PCM input terminal 0 to Sub DSP		(Unconnected)
43	VSS		Ground terminal		
44	VDD2		+2.5V power terminal (for internal circuit)		
45	IPORT12	I+	IPINT general purpose input terminal	(DIRINT)	
46	IPORT13	I+	IPINT general purpose input terminal	(DBL)	
47	IPORT14	I+	IPINT general purpose input terminal	(DBL)	
48	DIRSDO	O	AC-3/DTS bit stream (or PCM) data output terminal from DIR		(Unconnected)
49	DIRWCK	O	DIR: Serial data word clock (fs) output terminal	(WCK)	
50	DIRBCK	O	DIR: Serial data bit clock (64fs) output terminal	(BCK)	
51	DIRMCK	O	DIR: Serial data master clock (256fs or 128fs) output terminal	(MCK)	
52	ERR/BS	O	DIR: Data error detect output/block start output terminal		(Unconnected)
53	SYNC/U	O	DIR: Serial data synchronous timing output/user data output terminal		(Unconnected)
54	FS128/C	O	DIR: Serial data master clock 128fs output/channel status output terminal	(FS128)	(Unconnected)
55	DBL/V	O	DIR: Double rate clock output/validity flag output terminal	(DBL)	

IC801 : YSS938 (DSP P.C.B.)
DSP

No.	Name	I/O	Function		
56	SDWCKI1	I+	Word clock input terminal for SDIB, SDOB interface	(WCKG)	(Unconnected)
57	SDBCKI1	I+	Bit clock input terminal for SDIB, SDOB interface	(BCKG)	(Unconnected)
58	VSS		Ground terminal		
59	SDOB3	O	PCM output terminal from Sub DSP		
60	SDOB2	O	PCM output terminal from Sub DSP		
61	SDOB1	O	PCM output terminal from Sub DSP		
62	SDOB0	O	PCM output terminal from Sub DSP		
63	VDD1		+3.3V power terminal (for terminal section)		
64	ZEROBF3R	O+	SDOB3 Rch zero flag output terminal	(ZF3R)	(Unconnected)
65	ZEROBF3L	O+	SDOB3 Lch zero flag output terminal	(ZF3L)	(Unconnected)
66	ZEROBF2R	O+	SDOB2 Rch zero flag output terminal	(ZF2R)	(Unconnected)
67	ZEROBF2L	O+	SDOB2 Lch zero flag output terminal	(ZF2L)	(Unconnected)
68	OPORT0	O	General purpose output terminal	(/RINH1)	(Unconnected)
69	OPORT1	O	General purpose output terminal	(/RINH2)	(Unconnected)
70	OPORT2	O	General purpose output terminal	(/ICDA)	
71	OPORT3	O	General purpose output terminal	(/ICAD)	(Unconnected)
72	OPORT4	O	General purpose output terminal	(DPS)	
73	OPORT5	O	General purpose output terminal	(RST)	(Unconnected)
74	OPORT6	O	General purpose output terminal	(ERROR)	(Unconnected)
75	OPORT7	O	General purpose output terminal	(/PRST)	(Unconnected)
76	VSS		Ground terminal		
77	VDD2		+2.5V power terminal (for internal circuit)		
78	RAMD0	I+/O	Sub DSP: External memory data terminal 0		
79	RAMD1	I+/O	Sub DSP: External memory data terminal 1		
80	RAMD2	I+/O	Sub DSP: External memory data terminal 2		
81	RAMD3	I+/O	Sub DSP: External memory data terminal 3		
82	ZEROBF1R	O+	SDOB1 Rch zero flag output terminal	(ZF1R)	(Unconnected)
83	ZEROBF1L	O+	SDOB1 Lch zero flag output terminal	(ZF1L)	(Unconnected)
84	ZEROBF0R	O+	SDOB0 Rch zero flag output terminal	(ZF0R)	(Unconnected)
85	ZEROBF0L	O+	SDOB0 Lch zero flag output terminal	(ZF0L)	(Unconnected)
86	RAMD4	I+/O	Sub DSP: External memory data terminal 4		
87	RAMD5	I+/O	Sub DSP: External memory data terminal 5		
88	RAMD6	I+/O	Sub DSP: External memory data terminal 6		
89	RAMD7	I+/O	Sub DSP: External memory data terminal 7		
90	VSS		Ground terminal		
91	VDD1		+3.3V power terminal (for terminal section)		
92	RAMD8	I+/O	Sub DSP: External memory data terminal 8		
93	RAMD9	I+/O	Sub DSP: External memory data terminal 9		
94	RAMD10	I+/O	Sub DSP: External memory data terminal 10		
95	RAMD11	I+/O	Sub DSP: External memory data terminal 11		
96	RAMD12	I+/O	Sub DSP: External memory data terminal 12		
97	RAMD13	I+/O	Sub DSP: External memory data terminal 13		
98	RAMD14	I+/O	Sub DSP: External memory data terminal 14		
99	RAMD15	I+/O	Sub DSP: External memory data terminal 15		
100	CASN	O	Sub DSP: Column address strobe output terminal for external DRAM		
101	RAMWEN	O	Sub DSP: Write enable terminal for external memory		
102	RAMOEN	O	Sub DSP: Output enable terminal for external memory		
103	RASN	O	Sub DSP: Low address strobe output terminal for external DRAM		
104	VSS		Ground terminal		
105	VDD1		+3.3V power terminal (for terminal section)		
106	RAMA8	O	Sub DSP: External memory address terminal 8		
107	RAMA7	O	Sub DSP: External memory address terminal 7		
108	RAMA0	O	Sub DSP: External memory address terminal 0		
109	RAMA6	O	Sub DSP: External memory address terminal 6		
110	RAMA1	O	Sub DSP: External memory address terminal 1		

RX-V350/HTR-5730

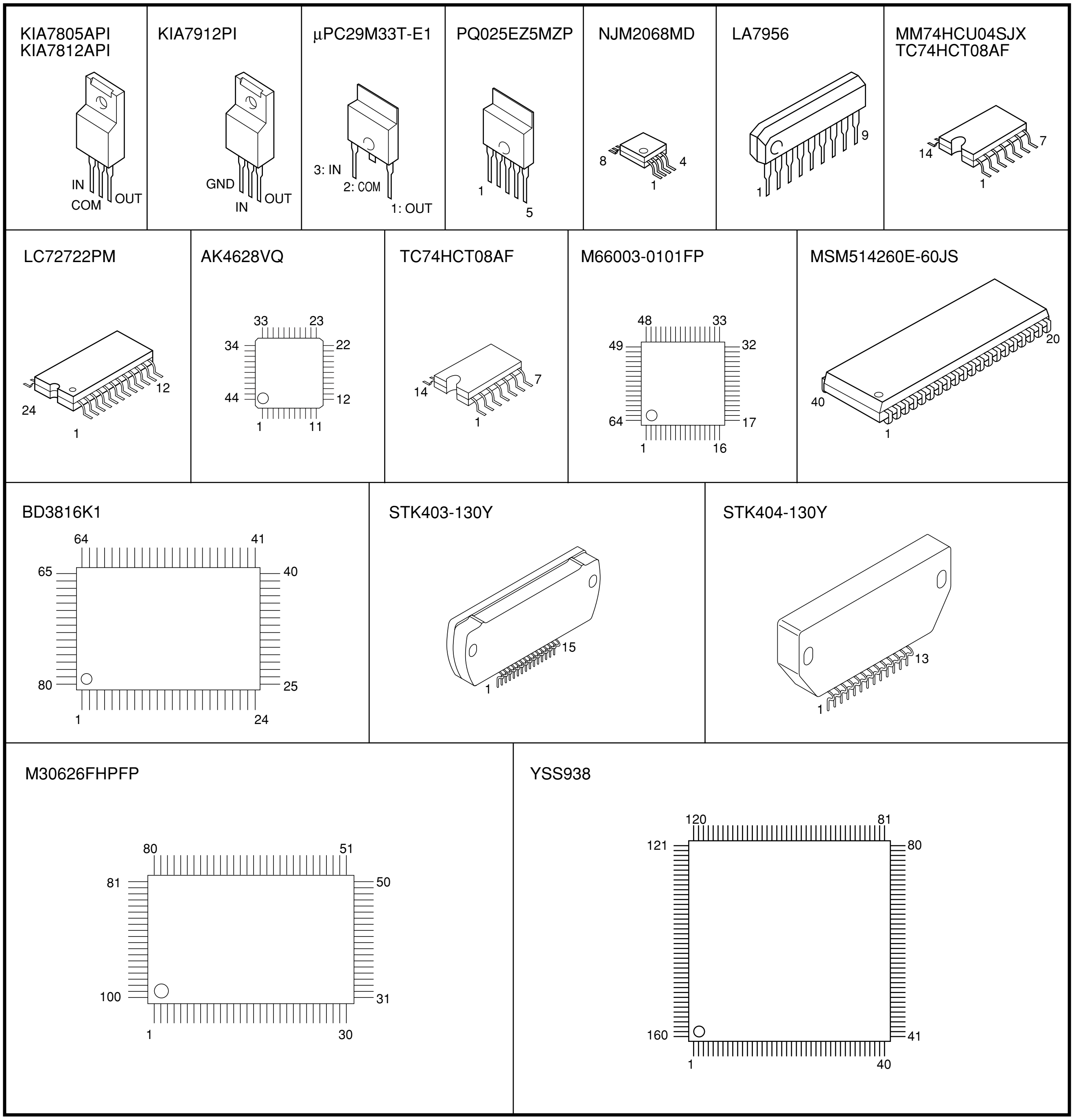
IC801 : YSS938 (DSP P.C.B.)
DSP

No.	Name	I/O	Function
111	RAMA5	O	Sub DSP: External memory address terminal 5
112	RAMA2	O	Sub DSP: External memory address terminal 2
113	SELI13	I+	Built-in selector input 13 (Unconnected)
114	SELI12	I+	Built-in selector input 12 (Unconnected)
115	SELI11	I+	Built-in selector input 11 (Unconnected)
116	SELI10	I+	Built-in selector input 10 (Unconnected)
117	SELI9	I+	Built-in selector input 9 (CXB) (Unconnected)
118	RAMA4	O	Sub DSP: External memory address terminal 4
119	RAMA3	O	Sub DSP: External memory address terminal 3
120	RAMA9	O	Sub DSP: External memory address terminal 9 (Unconnected)
121	RAMA10	O	Sub DSP: External memory address terminal 10 (Unconnected)
122	RAMA11	O	Sub DSP: External memory address terminal 11 (Unconnected)
123	VSS		Ground terminal
124	VDD2		+2.5V power terminal (for internal circuit)
125	SELI8	I+	Built-in selector input 8 (CXA)
126	SELI7	I+	Built-in selector input 7 (GND)
127	SELI6	I+	Built-in selector input 6 (OPTF) (Unconnected)
128	SELI5	I+	Built-in selector input 5 (Unconnected)
129	RAMA12	O	Sub DSP: External memory address terminal 12 (Unconnected)
130	RAMA13	O	Sub DSP: External memory address terminal 13 (Unconnected)
131	RAMA14	O	Sub DSP: External memory address terminal 14 (Unconnected)
132	RAMA15	O	Sub DSP: External memory address terminal 15 (Unconnected)
133	RAMA16	O	Sub DSP: External memory address terminal 16 (Unconnected)
134	RAMA17	O	Sub DSP: External memory address terminal 17 (Unconnected)
135	OVFB/END	O	Sub DSP: Overflow/program end detect terminal (Unconnected)
136	ZEROFLG	O	Main DSP: Zero flag output terminal (Unconnected)
137	VSS		Ground terminal
138	NONPCM	O	Main DSP: Non-PCM data detect terminal
139	DTSDATA	O	Main DSP: DTS data detect terminal (Unconnected)
140	AC3DATA	O	Main DSP: AC3 data detect terminal (Unconnected)
141	MUTE	O	Main DSP: Auto mute detect terminal
142	KARAOKE	O	Main DSP: AC3 KARAOKE data detect terminal (Unconnected)
143	VDD1	+3.3V	Power terminal (for terminal section)
144	SURENC	O	Main DSP: AC-3 2/0 mode Dolby surround encode input detect terminal (Unconnected)
145	CRC	O	Main DSP: AC3 CRC error detect terminal (Unconnected)
146	/LOCK	O	DIR: PLL lock detect terminal (Unconnected)
147	DIRINT	O	DIR: Interrupt output terminal
148	/CS	Is	Microprocessor interface chip select input terminal (/CSY)
149	SO	Ot	Microprocessor interface data output terminal (SDDY)
150	SI	Is	Microprocessor interface data input terminal (SDMYB)
151	SCK	Is	Microprocessor interface clock input terminal (SCKYB)
152	/IC	Is	Initial clear input terminal (/ICYP)
153	IPINT	O+	Interrupt output terminal by IPORT 8-14
154	SELI4	I+	Built-in selector input 4 (OPTD) (Unconnected)
155	VSS		Ground terminal
156	SELI3	I+	Built-in selector input 3 (OPTC)
157	SELI2	I+	Built-in selector input 2 (OPTB)
158	TESTXI	I	Test terminal (should be always connected to VSS)
159	TESTXO	O	Test terminal (Unconnected)
160	VDD2	+2.5V	Power terminal (for internal circuit)

Is: Schmidt trigger input terminal
I+: Input terminal with pull-up resistor
O: Digital output terminal
Ot: 3-state digital output terminal
A: Analog terminal

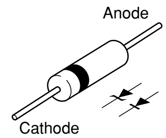
■ PIN CONNECTION DIAGRAM

• ICs

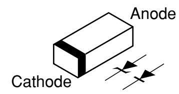


• Diodes

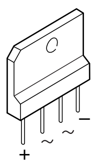
1SS133
1SS270A
1T2
MTZJ20B
MTZJ4.7A
MTZJ30A
MTZJ20A



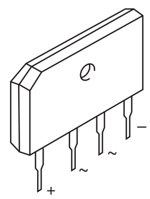
1SS355
MA8075-H
UDZ5.1B
UDZ6.8B
UDZS5.6BTE-17
UDZS6.2B
UDZS9.1B
KDS160-RTK



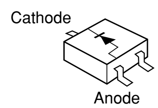
TS6P03G



KBP103G

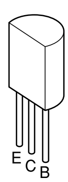


SB01-05Q

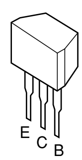


• Transistors

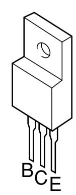
2SA1015
2SB949
2SC1815
2SC2705
2SA2N5401C-AT
2SC2N5551C-AT



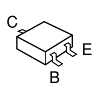
2SC1740S
KRA104M-AT
KRC102M-AT



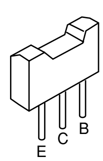
2SB1274
2SD1913



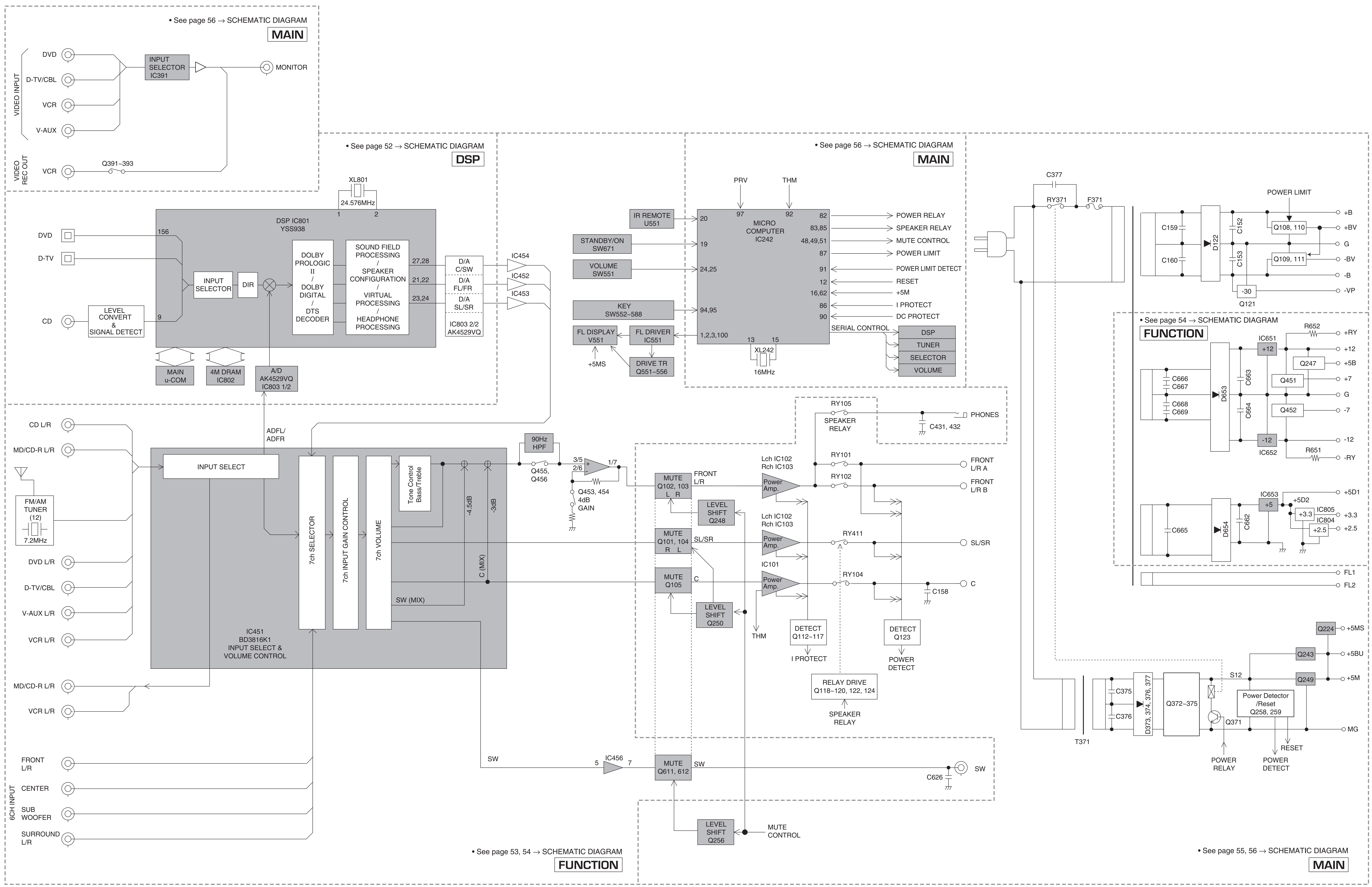
2SA1037K
2SC2412K
2SC3326
KRA104S-RTK
KRC104S-RTK
KRC102S-RTK



2SA1708
2SC4488



■ BLOCK DIAGRAM



RX-V350/HTR-5730

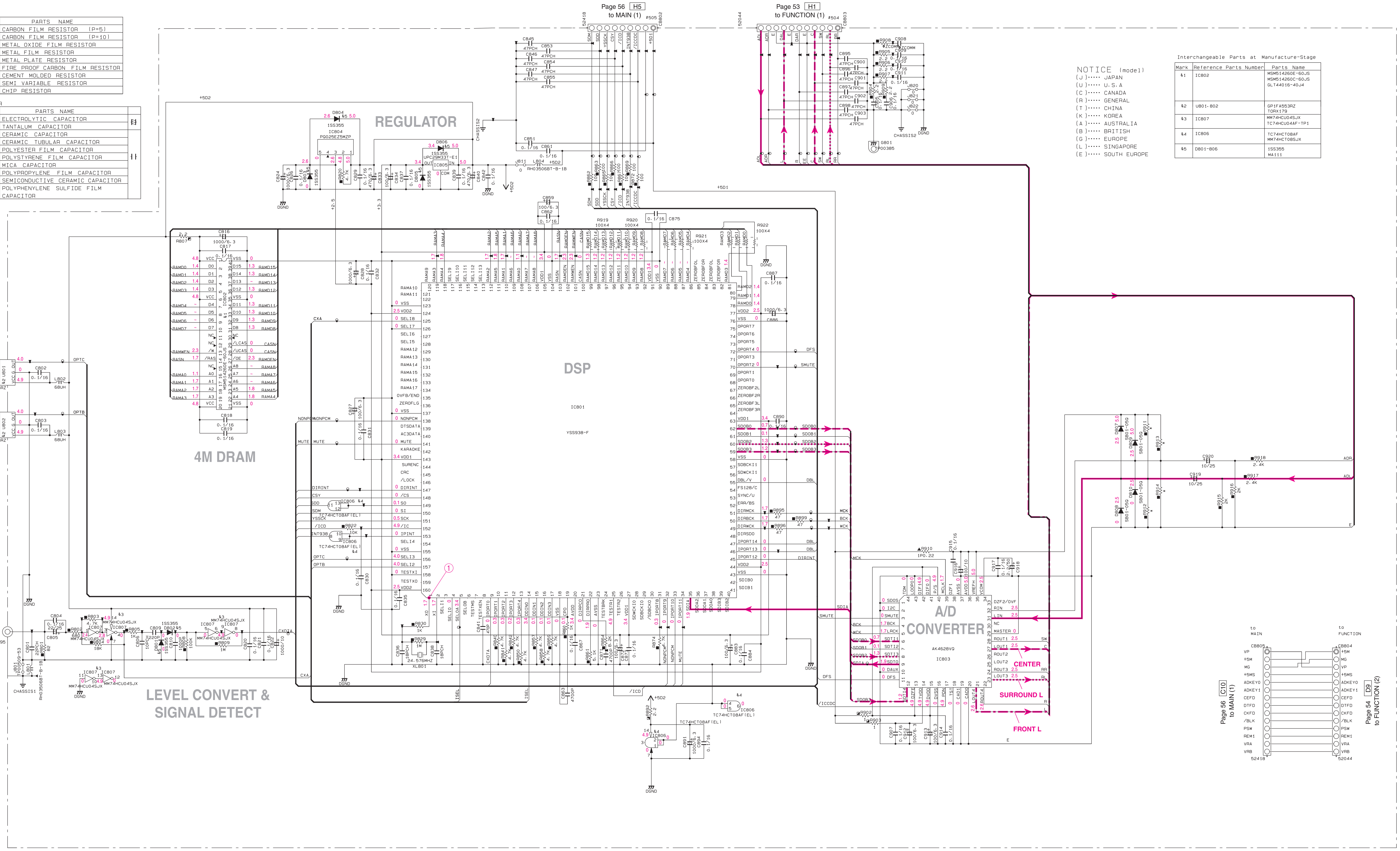
■ SCHEMATIC DIAGRAM (DSP)

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
Square with diagonal	CARBON FILM RESISTOR (P=10)
Triangle	METAL OXIDE FILM RESISTOR
Hatched triangle	METAL FILM RESISTOR
Crossed square	METAL PLATE RESISTOR
Hatched square	FIRE PROOF CARBON FILM RESISTOR
Square	CEMENT MOLDED RESISTOR
Circle with slash	SEMI VARIABLE RESISTOR
Filled square	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	Polarized capacitor symbol
Circled X	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	Capacitor symbol
Circle with dot	CERAMIC TUBULAR CAPACITOR	
Double circle	POLYESTER FILM CAPACITOR	
Circle	POLYSTYRENE FILM CAPACITOR	
Circle with bar	MICA CAPACITOR	
Circled P	POLYPROPYLENE FILM CAPACITOR	
Hatched circle	SEMICONDUCTIVE CERAMIC CAPACITOR	
Circled S	POLYPHENYLENE SULFIDE FILM CAPACITOR	



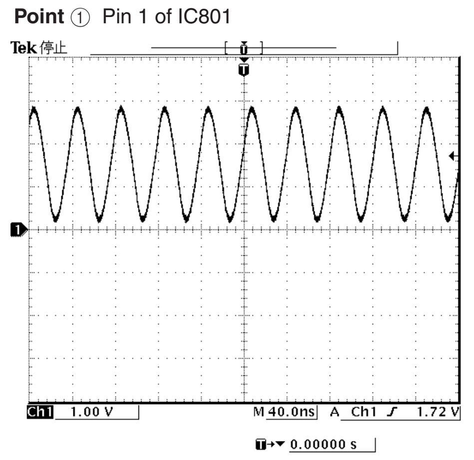
NOTICE (model)
(J)…… JAPAN
(U)…… U.S.A
(C)…… CANADA
(R)…… GENERAL
(T)…… CHINA
(K)…… KOREA
(A)…… AUSTRALIA
(B)…… BRITISH
(G)…… EUROPE
(L)…… SINGAPORE
(E)…… SOUTH EUROPE

Interchangeable Parts at Manufacture-Stage

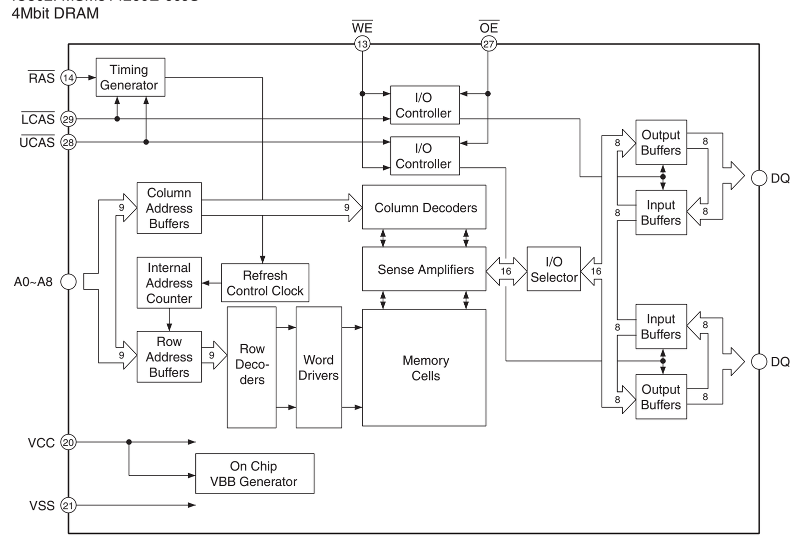
Mark	Reference Parts Number	Parts Name
&1	IC802	MSM514260E-60JS MSM514260C-60JS GLT44016-40J4
&2	U801・802	GP1FA553RZ TORX179
&3	IC807	MM74HCU04SJX TC74HCU04AF-TP1
&4	IC806	TC74HCT08AF MM74HCT08SJX
&5	D801-806	1SS355 MA111

★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

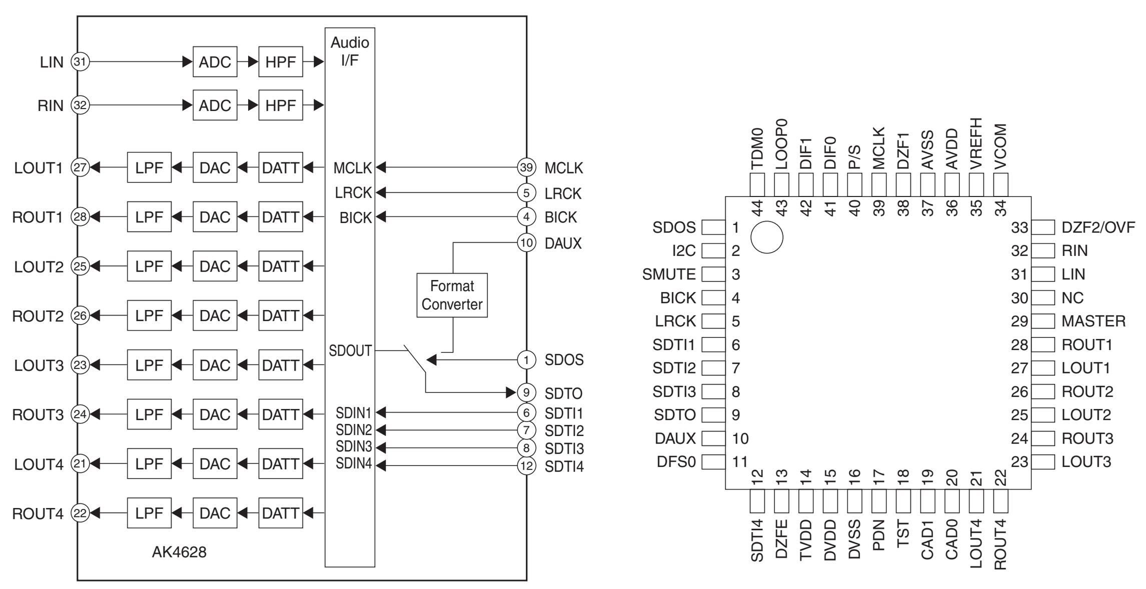
Point ① Pin 1 of IC801



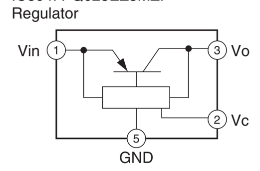
IC802: MSM514260E-60JS
4Mbit DRAM



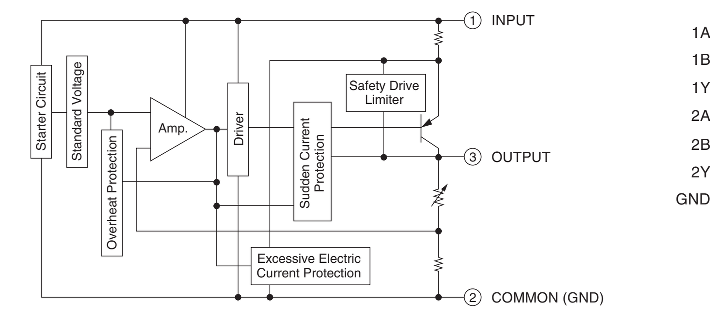
IC803: AK4628VQ
192kHz 24Bit 8-channel CODEC



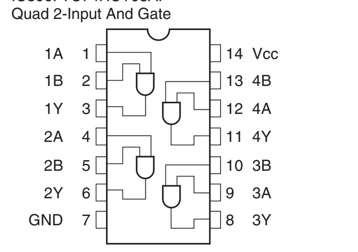
IC804: PQ025EZ5MZP
Regulator



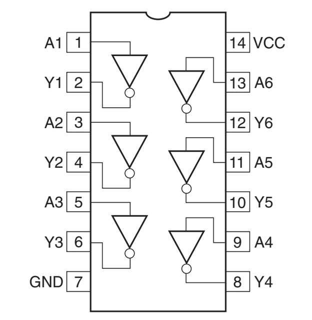
IC805: μPC29M33T-E1
Voltage Regulator



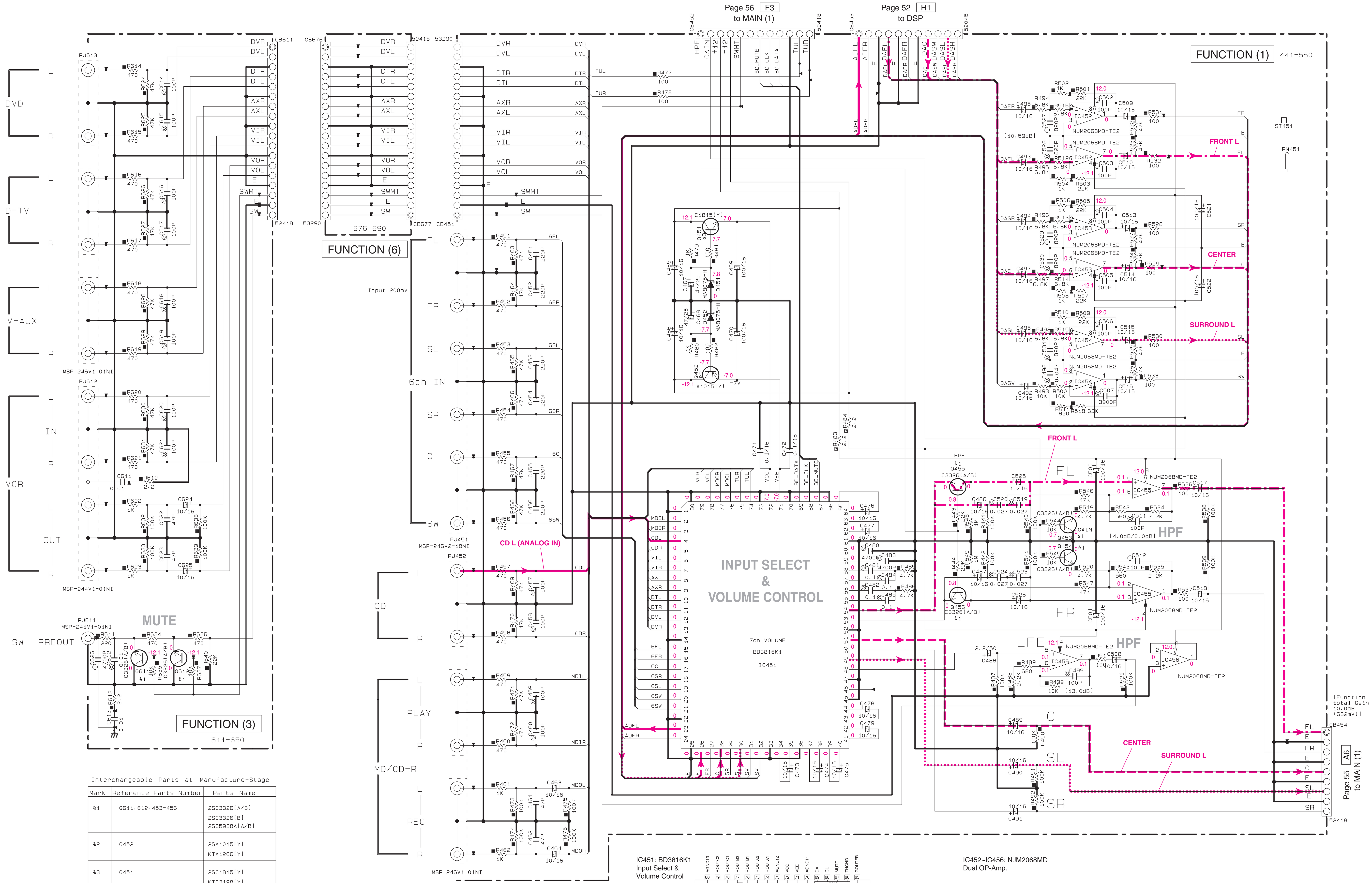
IC806: TC74HCT08AF
Quad 2-Input And Gate



IC807: MM74HCU04SJX
Hex Inverters



■ SCHEMATIC DIAGRAM (FUNCTION 1/2)



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
◪	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
⊙	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⦶	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊜	SEMICONDUCTIVE CERAMIC CAPACITOR	

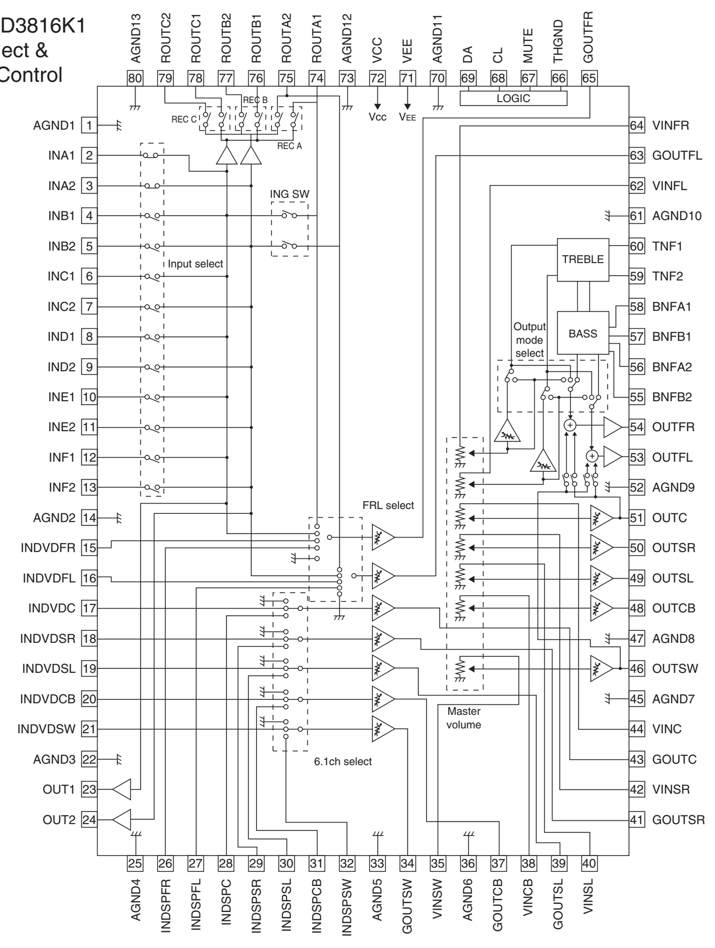
NOTICE (model)

(J)…… JAPAN
(U)…… U.S.A
(C)…… CANADA
(R)…… GENERAL
(T)…… CHINA
(K)…… KOREA
(A)…… AUSTRALIA
(B)…… BRITISH
(G)…… EUROPE
(L)…… SINGAPORE
(E)…… SOUTH EUROPE

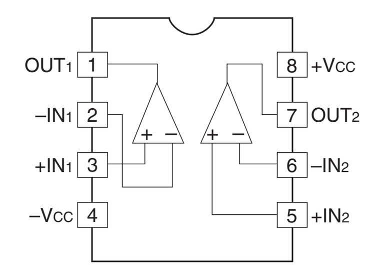
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	Q611, 612, 453-456	2SC3326[A/B] 2SC3326[B] 2SC5938A[A/B]
&2	Q452	2SA1015[Y] KTA1266[Y]
&3	Q451	2SC1815[Y] KTC3198[Y]

IC451: BD3816K1
Input Select & Volume Control

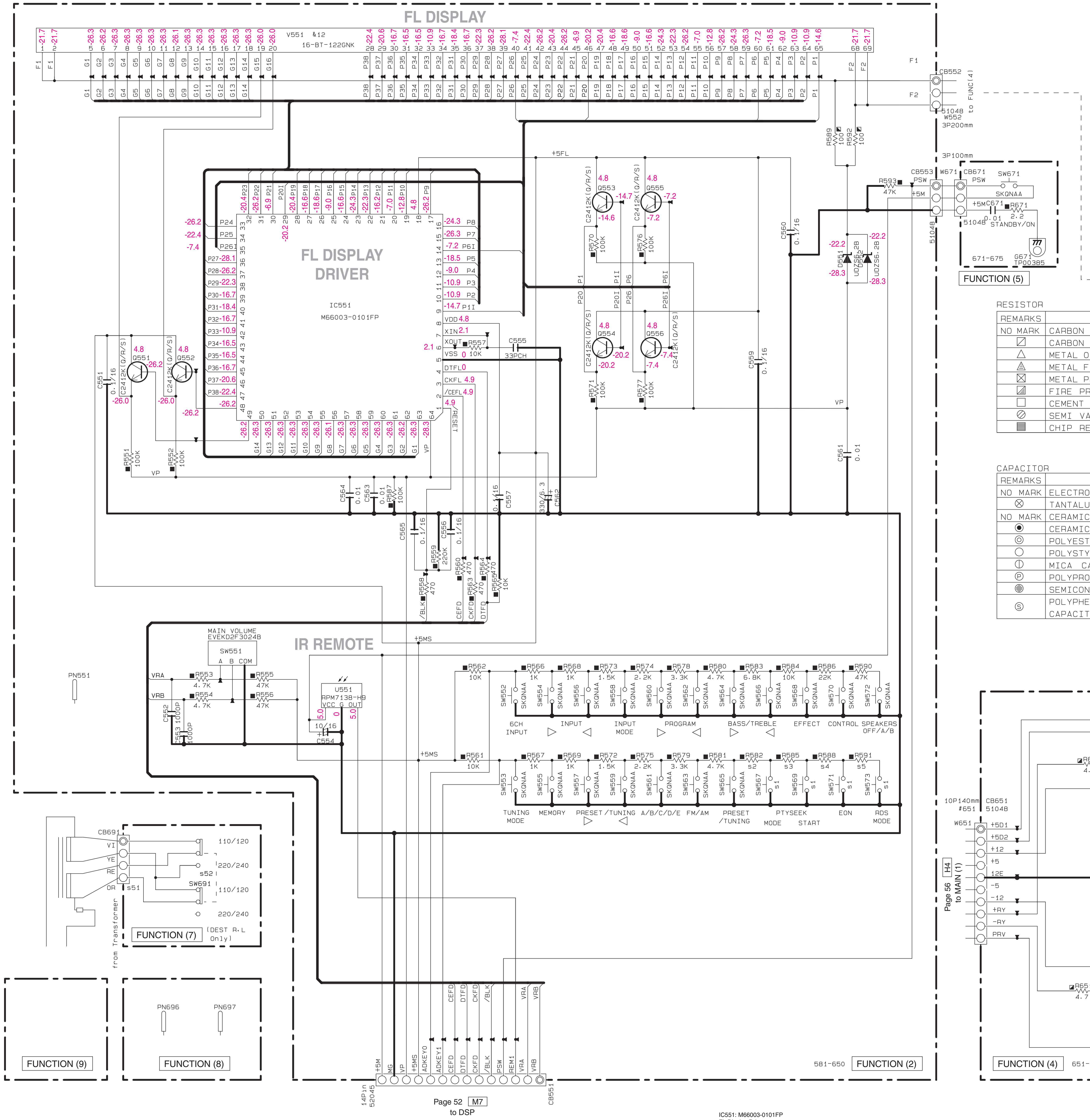


IC452~IC456: NJM2068MD
Dual OP-Amp.



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (FUNCTION 2/2)



		U, C T, K, A	R, L	B, G, E	
s1	SW567, 569, 571, 573	X	X	VV02030	RDS Model
s2	R582	X	X	6.8K RD35668	
s3	R585	X	X	10K RD35710	
s4	R588	X	X	22K RD35722	
s5	R591	X	X	47K RD35747	
s52	SW691	X	VZ07550 SL14-22AM5F	X	VOLTAGE
s51	CB691	X	V937790 B4P7S-VH	X	

x: NOT USED
O: USED / APPLICABLE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&11	D653, 654	KBP103G RS103
&12	V551	16-BT-122GNK HNA-16MM46
&13	D432, 433	1SS355 MA111

RESISTOR

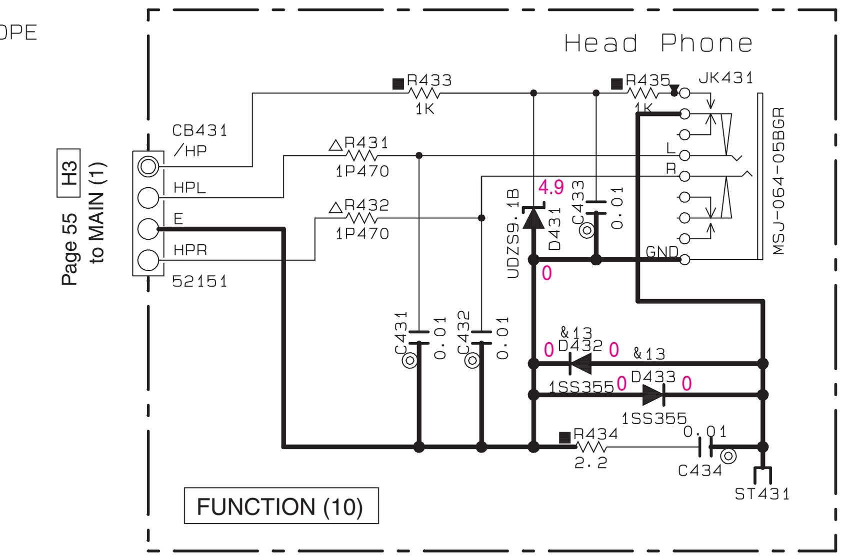
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⍁	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

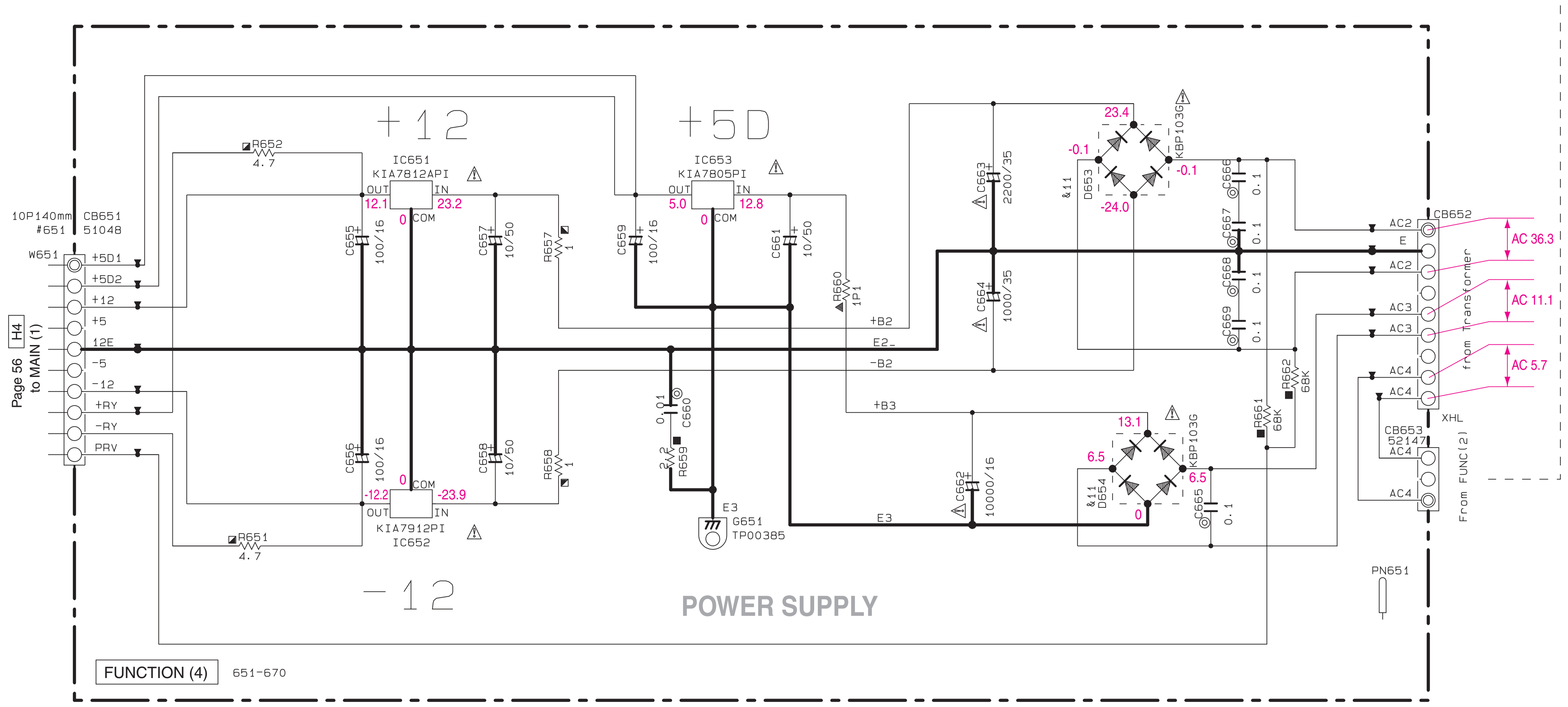
CAPACITOR

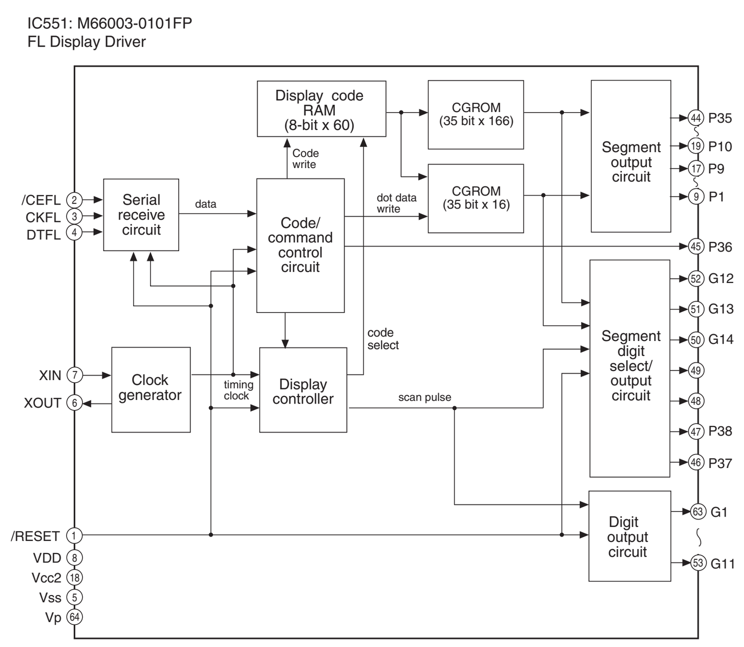
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	(polarized symbol)
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	(non-polarized symbol)
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⦶	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊜	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

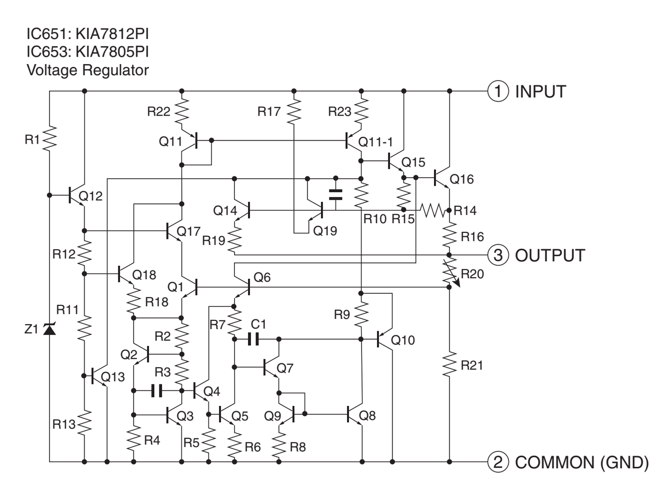
NOTICE (model)

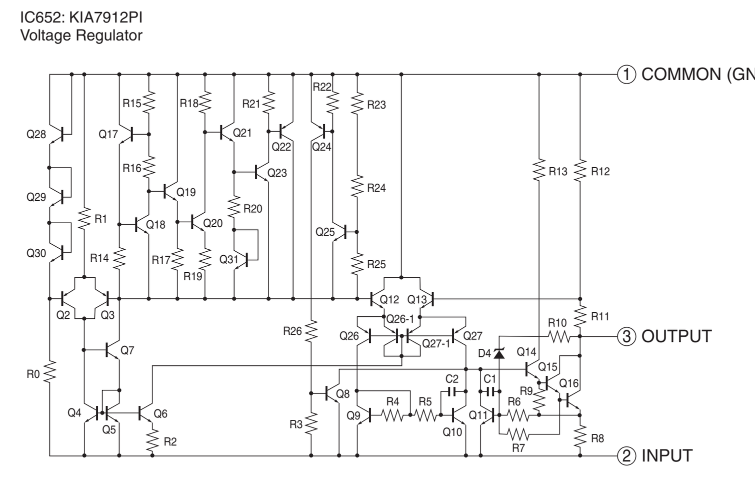
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE





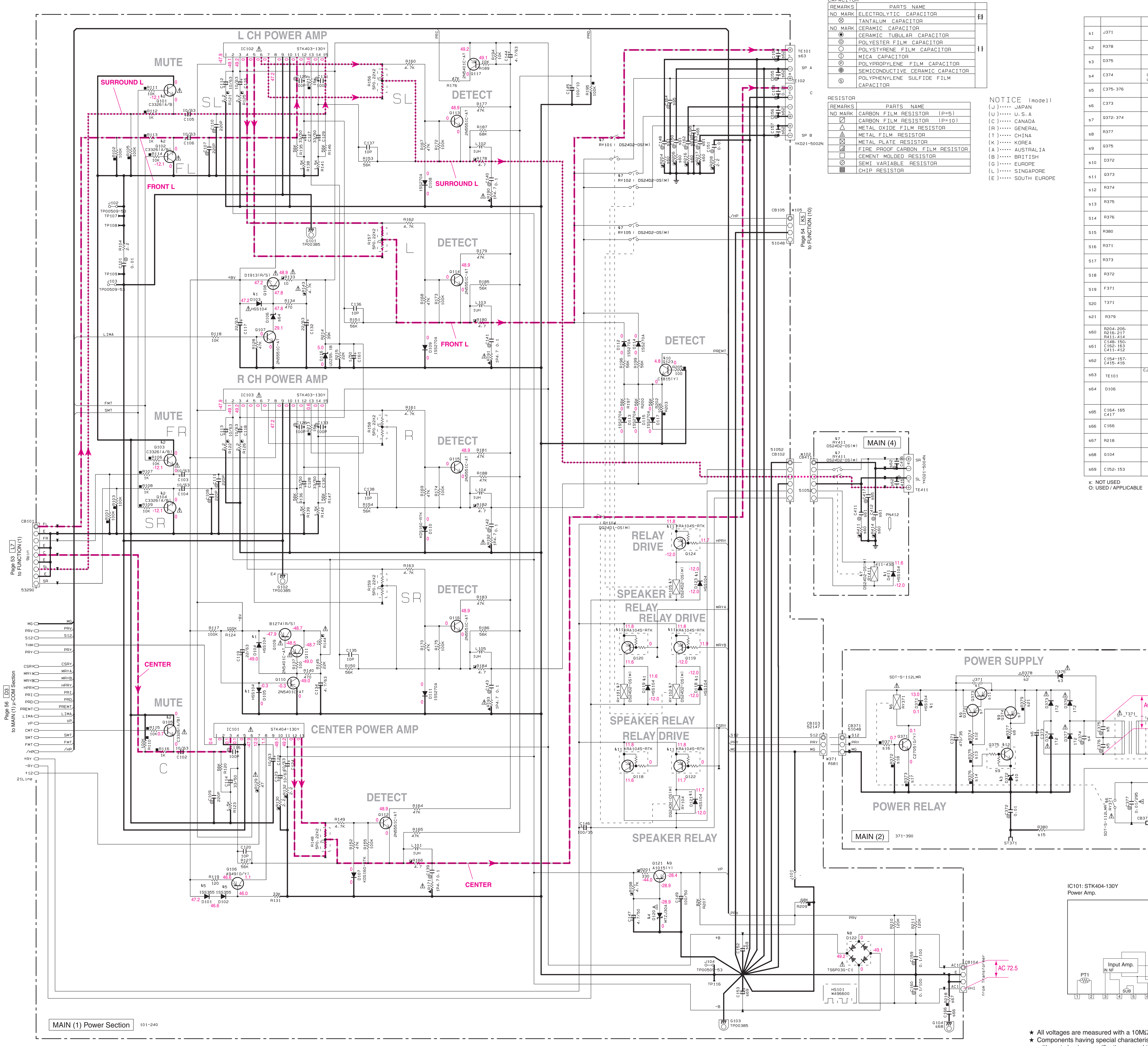






★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

■SCHEMATIC DIAGRAM (MAIN 1/2)



CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	(electrolytic symbol)
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	(capacitor symbol)
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⦶	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
(hatched circle)	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
◪	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
(hatched triangle)	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
(hatched square)	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

NOTICE (model)

(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE

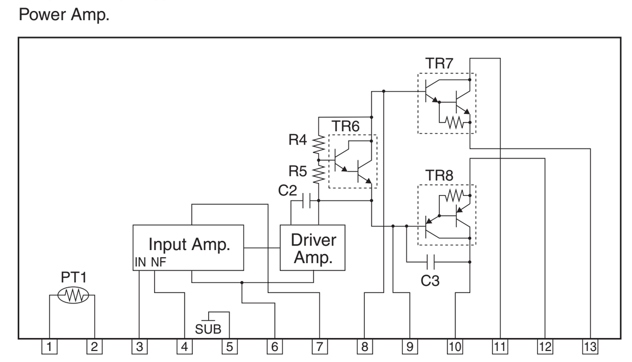
		U·C	R	T	A	K	B·G·E	L	
s1	J371	O	X	O	O	O	O	X	Sub Trans
s2	R378	X	2P47 VC75790	X	X	X	X	2P47 VC75790	
s3	D375	X	1T2 VS99780	X	X	X	X	1T2 VS99780	
s4	C374	0.01 UA65410	X	0.01 UA65410	0.01 UA65410	0.01 UA65410	0.01 UA65410	X	
s5	C375·376	X	0.01 UA65410	X	X	X	X	0.01 UA65410	
s6	C373	X	10/50 UR86710	X	X	X	X	10/50 UR86710	
s7	Q372·374	X	A1015[Y] IA1015I	X	X	X	X	A1015[Y] IA1015I	
s8	R377	X	47K RD35747	X	X	X	X	47K RD35747	
s9	Q375	X	KRC102M-AT WC52920	X	X	X	X	KRC102M-AT WC52920	
s10	D372	X	MTZJ4.7A VG43700	X	X	X	X	MTZJ4.7A VG43700	
s11	Q373	X	A1708(S/T) VP87260	X	X	X	X	A1708(S/T) VP87260	
s12	R374	X	1K RD35610	X	X	X	X	1K RD35610	
s13	R375	X	33K RD35733	X	X	X	X	33K RD35733	
S14	R376	X	5.6K RD35656	X	X	X	X	5.6K RD35656	
S15	R380	1/2P2.2M V673000	X	X	X	X	X	X	
S16	R371	4.7K RD35647	1.8K RD35618	4.7K RD35647	4.7K RD35647	4.7K RD35647	4.7K RD35647	1.8K RD35618	
S17	R373	0 RD35000	15 RD35415	0 RD35000	0 RD35000	0 RD35000	0 RD35000	15 RD35415	
S18	R372	100K RD35810	560 RD35556	100K RD35810	100K RD35810	100K RD35810	100K RD35810	560 RD35556	
S19	F371	6A125V WB22120	6A125V WB22120	T3.15AL250V VV07170	T3.15AL250V VV07170	T3.15AL250V VV07170	T3.15AL250V VV07170	6A125V WB22120	
S20	T371	XW606 X4277	XW974	XW608	XW608 X4278	XW608 X4278	XW608 X4278	XW974	
s21	R379	X	100K RD35810	X	X	X	X	100K RD35810	
s60	R204·206· R216·217 R411·414	X	2.2 HV75322	2.2 HV75322	2.2 HV75322	2.2 HV75322	2.2 HV75322	2.2 HV75322	SP Terminal
s61	C148·150· C162·163 C411·412	X	0.01 UA65410	0.01 UA65410	0.01 UA65410	0.01 UA65410	0.01 UA65410	0.01 UA65410	
s62	C154-157· C415·416	X	X	X	0.01 UA65410	0.01 UA65410	0.01 UA65410	0.01 UA65410	
s63	TE101	CJ9041A-06 -0201 VY69630	CJ9041A-06 -0201 VY69630	CJ9041A-06 -0201 VY69630	CJ9041A-06 -0201 VY69630	CJ9041-06 -0201 VY69640	CJ9041-06 -0201 VY69640	CJ9041-06 -0201 VY69640	
s64	D106	MTZJ20B VG44170 GDZJ20B WB20170	MTZJ20A VG44160 GDZJ20A WB20160	MTZJ20A VG44160 GDZJ20A WB20160	MTZJ20A VG44160 GDZJ20A WB20160	MTZJ20A VG44160 GDZJ20A WB20160	MTZJ20A VG44160 GDZJ20A WB20160	MTZJ20A VG44160 GDZJ20A WB20160	Limit
s65	C164·165 C417	X	X	X	100P UA65210	100P UA65210	100P UA65210	X	EMC
s66	C166	X	X	X	0.01 UA65410	0.01 UA65410	0.01 UA65410	X	
s67	R218	X	X	X	2.2 RD35322	2.2 RD35322	2.2 RD35322	X	
s68	G104	X	X	X	VR46340	VR46340	VR46340	X	
s69	C152·153	6800/63 WC86920	6800/63 WC86920	6800/63 WC86920	6800/63 WC86920	6800/63 WC86920	6800/63 WC99870	6800/63 WC86920	

x: NOT USED
O: USED / APPLICABLE

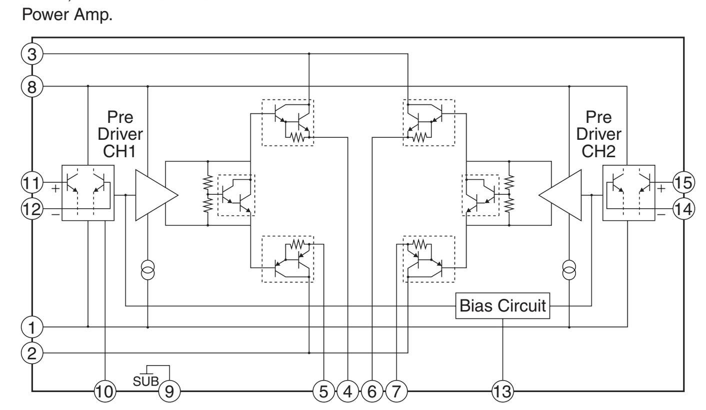
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D103-105·118·119·121 123·371·411	HSS104 1SS133 1SS176
&2	Q101-105	2SC3326[A/B] 2SC3326[B] 2SC5938A[A/B]
&3	D372	MTZJ4.7A GDZJ4.7A
&4	D120	MTZJ30A GDZJ30A
&5	D101·102	1SS355 MA111
&6	RY371	SDT-S-112LMR DG12D1-O[M]-II ALKS321 G5PA-1-8
&7	RY101·102·105·411	DS24D2-OS[M] G5PA-28
&8	D122	TS6P03G-C1 RS603M
&9	Q121·372·374	2SA1015[Y] KTA1266[Y]
&10	Q123	2SC1815[Y] KTC3198[Y]
&11	Q118-120·122·124	KRA104S-RTK DTA144EKA
&12	Q375	KRC102M-AT DTC114ES

IC101: STK404-130Y
Power Amp.

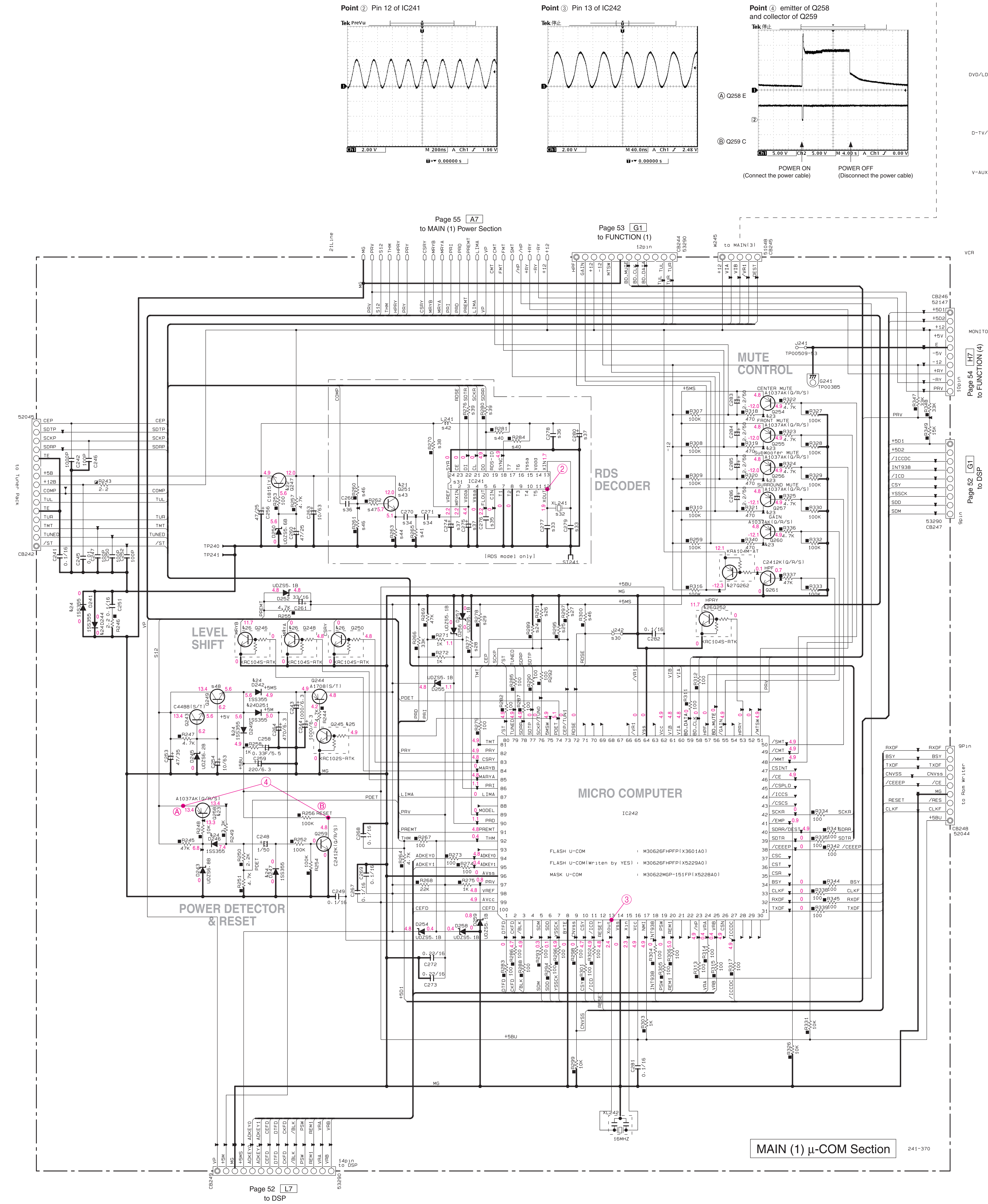


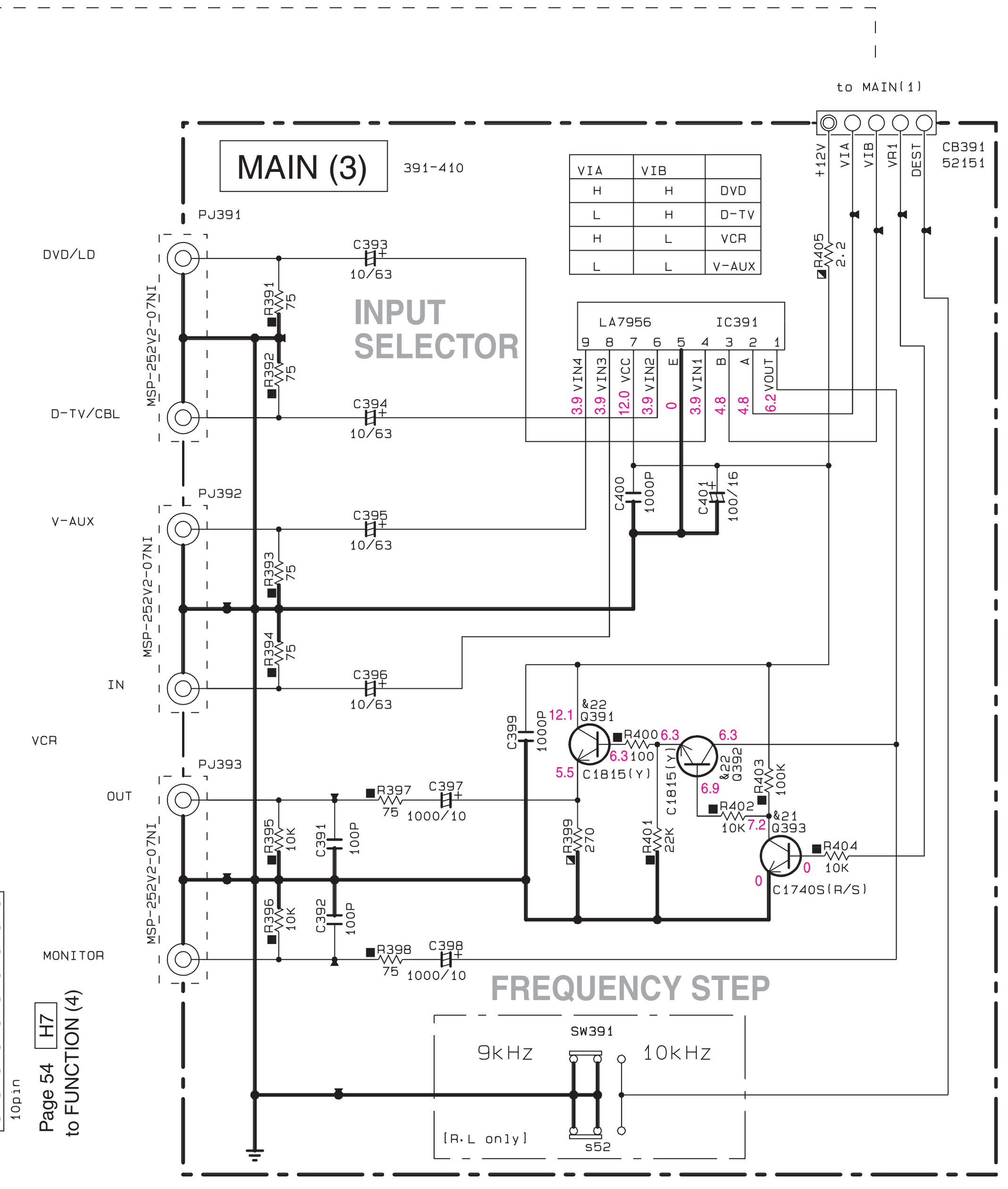
IC102, 103: STK403-130Y
Power Amp.



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally included.
★ Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MAIN 2/2)





CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⦶	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
⊜	SEMICONDUCTIVE CERAMIC CAPACITOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
◪	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⟁	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◩	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE
(E)····· SOUTH EUROPE

Interchangeable Parts at Manufacture-Stage

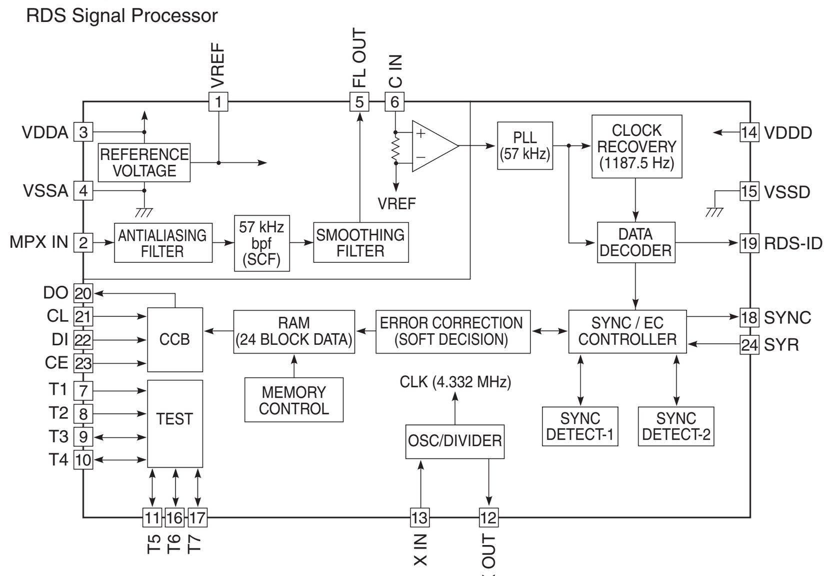
Mark	Reference Parts Number	Parts Name
&21	Q251, 393	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]
&22	Q247, 391, 392	2SC1815[Y] KTC3198[Y]
&23	Q254-258, 260	2SA1037AK[Q/R/S] 2SA1235A[E/F]
&24	D241, 242, 244, 246, 247, 249, 251	1SS355 MA111
&25	Q245	KRC1025-RTK DTC114EKA
&26	Q246, 248, 250, 252	KRC104S-RTK DTC144EKA
&27	Q262	KRA104M-AT DTA144ES

			U.C	R.L	T	K.A	B.G.E	
s24	R289		100K RD35810	X	X	X	X	Destination
s25	R295		X	X	100K RD35810	100K RD35810	100K RD35810	Destination
s26	R291		X	100K RD35810	100K RD35810	100K RD35810	100K RD35810	Destination
s27	R297		100K RD35810	100K RD35810	X	X	X	Destination
s28	R277		100K RD35810	100K RD35810	X	100K RD35810	100K RD35810	Destination
s29	R278		X	X	100K RD35810	X	X	Destination
s30	J242		0 RD35000	0 RD35000	0 RD35000	0 RD35000	X	RDS
s31	IC241		X	X	X	X	LC72722PM X0082A0	RDS
s32	XL241		X	X	X	X	4.332MHz V393090	RDS
s33	C277, 279		X	X	X	X	27PCH VA76110	RDS
s34	C270, 271		X	X	X	X	330P US06233	RDS
s35	C276		X	X	X	X	560P US06256	RDS
s36	C266, 278		X	X	X	X	0.1/16 US13510	RDS
s37	C274, 275, 280		X	X	X	X	47/25 UR84747	RDS
s38	R270		X	X	X	X	100 RD35510	RDS
s39	R276, 280		X	X	X	X	470 RD35547	RDS
s40	R281, 284		X	X	X	X	10K RD35710	RDS
s41	R265		X	X	X	X	22K RD35722	RDS
s42	L241		X	X	X	X	220uH VU88950	RDS
s43	Q251		X	X	X	X	2SC1740S[R/S] IC17402	RDS
s44	R263		X	X	X	X	3.3K RD35633	RDS
s46	R260, 261, 300		X	X	X	X	100K RD35810	RDS
s47	R262		X	X	X	X	1K RD35610	RDS
s48	Q249		X	C4488(S/T) VP87270	X	X	X	R Dest.
s52	SW391		X	SS029-P022MJB V362430	X	X	X	MAIN (3)

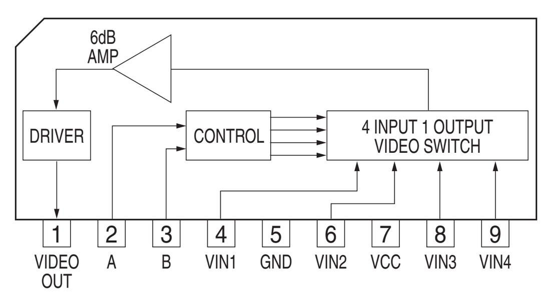
MAIN(1): s24–s48; MAIN (3): s52

x: NOT USED
O: USED / APPLICABLE

IC241: LC72722PM
RDS Signal Processor



IC391: LA7956
Video Switch



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

- Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

C.A.EL.CHP	: CHIP ALUMI.ELECTROLYTIC CAP
C.CE	: CERAMIC CAP
C.CE.ARRAY	: CERAMIC CAP ARRAY
C.CE.CHP	: CHIP CERAMIC CAP
C.CE.ML	: MULTILAYER CERAMIC CAP
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP
C.CE.TUBLR	: CERAMIC TUBULAR CAP
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP
C.EL	: ELECTROLYTIC CAP
C.MICA	: MICA CAP
C.ML.FLM	: MULTILAYER FILM CAP
C.MP	: METALLIZED PAPER CAP
C.MYLAR	: MYLAR FILM CAP
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP
C.PAPER	: PAPER CAPACITOR
C.PLS	: POLYSTYRENE FILM CAP
C.POL	: POLYESTER FILM CAP
C.POLY	: POLYETHYLENE FILM CAP
C.PP	: POLYPROPYLENE FILM CAP
C.TNTL	: TANTALUM CAP
C.TNTL.CHP	: CHIP TANTALUM CAP
C.TRIM	: TRIMMER CAP
CN	: CONNECTOR
CN.BS.PIN	: CONNECTOR,BASE PIN
CN.CANNON	: CONNECTOR,CANNON
CN.DIN	: CONNECTOR,DIN
CN.FLAT	: CONNECTOR,FLAT CABLE
CN.POST	: CONNECTOR,BASE POST
COIL.MX.AM	: COIL,AM MIX
COIL.AT.FM	: COIL,FM ANTENNA
COIL.DT.FM	: COIL,FM DETECT
COIL.MX.FM	: COIL,FM MIX
COIL,OUTPT	: OUTPUT COIL
DIOD.ARRAY	: DIODE ARRAY
DIODE.BRG	: DIODE BRIDGE
DIODE.CHP	: CHIP DIODE
DIODE.VAR	: VARACTOR DIODE
DIOD.Z.CHP	: CHIP ZENER DIODE
DIODE.ZENR	: ZENER DIODE
DSCR.CE	: CERAMIC DISCRIMINATOR
FER.BEAD	: FERRITE BEADS
FER.CORE	: FERRITE CORE
FET.CHP	: CHIP FET
FL.DSPLY	: FLUORESCENT DISPLAY
FLTR.CE	: CERAMIC FILTER
FLTR.COMB	: COMB FILTER MODULE
FLTR.LC.RF	: LC FILTER,EMI
GND.MTL	: GROUND PLATE
GND.TERM	: GROUND TERMINAL
HOLDER.FUS	: FUSE HOLDER
IC.PRTCT	: IC PROTECTOR
JUMPER.CN	: JUMPER CONNECTOR
JUMPER.TST	: JUMPER,TEST POINT
L.DTCT	: LIGHT DETECTING MODULE
L.EMIT	: LIGHT EMITTING MODULE
LED.DSPLY	: LED DISPLAY
LED.INFRD	: LED,INFRARED
MODUL.RF	: MODULATOR,RF
PHOT.CPL	: PHOTO COUPLER
PHOT.INTR	: PHOTO INTERRUPTER
PHOT.RFLCT	: PHOTO REFLECTOR
PIN.TEST	: PIN,TEST POINT
PLST.RIVET	: PLASTIC RIVET
R.ARRAY	: RESISTOR ARRAY
R.CAR.	: CARBON RESISTOR
R.CAR.CHP	: CHIP RESISTOR
R.CAR.FP	: FLAME PROOF CARBON RESISTOR
R.FUS	: FUSABLE RESISTOR
R.MTL.CHP	: CHIP METAL FILM RESISTOR
R.MTL.FLM	: METAL FILM RESISTOR
R.MTL.OXD	: METAL OXIDE FILM RESISTOR
R.MTL.PLAT	: METAL PLATE RESISTOR
RSNR.CE	: CERAMIC RESONATOR
RSNR.CRYS	: CRYSTAL RESONATOR
R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
R.WW	: WIRE WOUND RESISTOR
SCR.BND.HD	: BIND HEAD B-TITE SCREW
SCR.BW.HD	: BW HEAD TAPPING SCREW
SCR.CUP	: CUP TITE SCREW
SCR.TERM	: SCREW TERMINAL
SCR.TR	: SCREW,TRANSISTOR
SUPRT.PCB	: SUPPORT,P.C.B.
SURG.PRTCT	: SURGE PROTECTOR
SW.TACT	: TACT SWITCH
SW.LEAF	: LEAF SWITCH
SW.LEVER	: LEVER SWITCH
SW.MICRO	: MICRO SWITCH
SW.PUSH	: PUSH SWITCH
SW.RT.ENC	: ROTARY ENCODER
SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
SW.RT	: ROTARY SWITCH
SW.SLIDE	: SLIDE SWITCH
TERM.SP	: SPEAKER TERMINAL
TERM.WRAP	: WRAPPING TERMINAL
THRMST.CHP	: CHIP THERMISTOR
TR.CHP	: CHIP TRANSISTOR
TR.DGT	: DIGITAL TRANSISTOR
TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
TRANS	: TRANSFORMER
TRANS.PULS	: PULSE TRANSFORMER
TRANS.PWR	: POWER TRANSFORMER ASS'Y
TUNER.AM	: TUNER PACK,AM
TUNER.FM	: TUNER PACK,FM
TUNER.PK	: FRONT-ENDTUNER PACK
VR	: ROTARY POTENTIOMETER
VR.MTR	: POTENTIOMETER WITH MOTOR
VR.SW	: POTENTIOMETER WITH ROTARY SW
VR.SLIDE	: SLIDE POTENTIOMETER
VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

RX-V350/HTR-5730

P.C.B. DSP

	Schm Ref.	PART NO.	Description		Remarks	Markets
*		WC763500	P.C.B.	DSP		UCRTKABGE
*		WD044200	P.C.B.	DSP		L
	CB802	VQ961200	CN.BS.PIN	9P		
	CB803	VQ044500	CN.BS.PIN	11P		
	CB804	VF982200	CN.BS.PIN	14P		
	CB805	VQ961700	CN.BS.PIN	14P		
	C805	UR847220	C.EL	22uF 25V		
	C816	UR819100	C.EL	1000uF 6.3V		
	C822	UR829100	C.EL	1000uF 10V		
	C824	UR819100	C.EL	1000uF 6.3V		
	C827	UR818100	C.EL	100uF 6.3V		
	C828	UR819100	C.EL	1000uF 6.3V		
	C833	UR818470	C.EL	470uF 6.3V		
	C834	UR818100	C.EL	100uF 6.3V		
	C840	UR818470	C.EL	470uF 6.3V		
	C859	UR818100	C.EL	100uF 6.3V		
	C872	UR818100	C.EL	100uF 6.3V		
	C883	UR818100	C.EL	100uF 6.3V		
	C886	UR819100	C.EL	1000uF 6.3V		
	C891	UR819100	C.EL	1000uF 6.3V		
	C912	UR818100	C.EL	100uF 6.3V		
	C913	UR818100	C.EL	100uF 6.3V		
	C916	UR828100	C.EL	100uF 10V		
	C918	UR866220	C.EL	2.2uF 50V		
	C919	UR847100	C.EL	10uF 25V		
	C920	UR847100	C.EL	10uF 25V		
	D801	VT332900	DIODE	1SS355		
	D802	VT332900	DIODE	1SS355		
	D803	VT332900	DIODE	1SS355		
	D804	VT332900	DIODE	1SS355		
	D805	VT332900	DIODE	1SS355		
	D806	VT332900	DIODE	1SS355		
	D807	WB081800	DIODE	SB01-05Q		
	D808	WB081800	DIODE	SB01-05Q		
	D809	WB081800	DIODE	SB01-05Q		
	D810	WB081800	DIODE	SB01-05Q		
	IC801	X0238B00	IC	YSS938		
	IC802	XV077B00	IC	MSM514260E-60JS		
	IC803	X3807A00	IC	AK4628VQ		
	IC804	XZ003A00	IC	PQ025EZ5MZP 2.5V		
	IC805	XU965A00	IC	uPC29M33T-E1 3.3V		
	IC806	XZ012A00	IC	TC74HCT08AF(EL)		
	IC807	XY070A00	IC	MM74HCU04SJX INVER		
	PJ801	V4483900	JACK.PIN	1P YKC21-3895		
	R807	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R892	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R902	HV753100	R.CAR.FP	1Ω 1/4W		
	R903	HV753100	R.CAR.FP	1Ω 1/4W		
	R910	VU224000	R.MTL.FLM	0.22Ω 1W		
*	R919	RE045100	R.ARRAY	100Ωx4		
*	R920	RE045100	R.ARRAY	100Ωx4		
*	R921	RE045100	R.ARRAY	100Ωx4		
*	R922	RE045100	R.ARRAY	100Ωx4		

* New Parts

P.C.B. DSP & P.C.B. FUNCTION

	Schm Ref.	PART NO.	Description		Remarks	Markets
	U801	WB001400	CN.PHOT.SN	1P GP1FA553RZ		
	U802	WB001400	CN.PHOT.SN	1P GP1FA553RZ		
	XL801	V3625700	RSNR.CRYS	24.576MHz		
*		WC763100	P.C.B.	FUNC		UCTKA
*		WC763200	P.C.B.	FUNC		R
*		WC763300	P.C.B.	FUNC		BGE
*		WD043900	P.C.B.	FUNC		L
	CB431	VK026300	CN.BS.PIN	4P		
	CB451	VQ963900	CN.BS.PIN	18P		
	CB452	VQ961500	CN.BS.PIN	12P		
	CB453	VM859500	CN.BS.PIN	11P		
	CB454	VQ961200	CN.BS.PIN	9P		
	CB551	VN394900	CN.BS.PIN	14P		
	CB552	Vi878100	CN.BS.PIN	3P		
	CB553	Vi878100	CN.BS.PIN	3P		
	CB611	VQ962100	CN.BS.PIN	18P		
	CB651	Vi878800	CN.BS.PIN	10P		
	CB652	LB919090	CN.BS.PIN	9P		
	CB653	VK024700	CN.BS.PIN	3P		
	CB671	Vi878100	CN.BS.PIN	3P		
	CB676	VQ963900	CN.BS.PIN	18P		
	CB677	VQ962100	CN.BS.PIN	18P		
	CB691	V9377900	CN.BS.PIN	4P SE VHSERIES		RL
	C431	UA654100	C.MYLAR	0.01uF 50V		
	C432	UA654100	C.MYLAR	0.01uF 50V		
	C433	UA654100	C.MYLAR	0.01uF 50V		
	C434	UA654100	C.MYLAR	0.01uF 50V		
	C457	UA652100	C.MYLAR	100pF 50V		
	C458	UA652100	C.MYLAR	100pF 50V		
	C459	UA652100	C.MYLAR	100pF 50V		
	C460	UA652100	C.MYLAR	100pF 50V		
	C461	FG651470	C.CE	47pF 50V		
	C462	FG651470	C.CE	47pF 50V		
	C463	UR837100	C.EL	10uF 16V		
	C464	UR837100	C.EL	10uF 16V		
	C465	UR837100	C.EL	10uF 16V		
	C466	UR837100	C.EL	10uF 16V		
	C467	UR847470	C.EL	47uF 25V		
	C468	UR847470	C.EL	47uF 25V		
	C469	UR838100	C.EL	100uF 16V		
	C470	UR838100	C.EL	100uF 16V		
	C473	UR837100	C.EL	10uF 16V		
	C474	UR837100	C.EL	10uF 16V		
	C475	UR837100	C.EL	10uF 16V		
	C476	UR837100	C.EL	10uF 16V		
	C477	UR837100	C.EL	10uF 16V		
	C478	UR837100	C.EL	10uF 16V		
	C479	UR837100	C.EL	10uF 16V		
	C480	UA653470	C.MYLAR	4700pF 50V		
	C481	VE326000	C.MYLAR.ML	0.1uF 50V		

* New Parts

P.C.B. FUNCTION

Schm Ref.	PART NO.	Description			Remarks	Markets
C482	VE326000	C.MYLAR.ML	0.1uF	50V		
C483	UA653470	C.MYLAR	4700pF	50V		
C484	VE326000	C.MYLAR.ML	0.1uF	50V		
C485	VE326000	C.MYLAR.ML	0.1uF	50V		
C486	UR837100	C.EL	10uF	16V		
C487	UR837100	C.EL	10uF	16V		
C488	UR866220	C.EL	2.2uF	50V		
C489	UR837100	C.EL	10uF	16V		
C490	UR837100	C.EL	10uF	16V		
C491	UR837100	C.EL	10uF	16V		
C492	UR837100	C.EL	10uF	16V		
C493	UR837100	C.EL	10uF	16V		
C494	UR837100	C.EL	10uF	16V		
C495	UR837100	C.EL	10uF	16V		
C496	UR837100	C.EL	10uF	16V		
C497	UR837100	C.EL	10uF	16V		
C498	UA654470	C.MYLAR	0.047uF	50V		
C499	UA652100	C.MYLAR	100pF	50V		
C500	UR838100	C.EL	100uF	16V		
C501	UR838100	C.EL	100uF	16V		
C502	UA652100	C.MYLAR	100pF	50V		
C503	UA652100	C.MYLAR	100pF	50V		
C504	UA652100	C.MYLAR	100pF	50V		
C505	UA652100	C.MYLAR	100pF	50V		
C506	UA652100	C.MYLAR	100pF	50V		
C507	UA653390	C.MYLAR	3900pF	50V		
C508	UR837100	C.EL	10uF	16V		
C509	UR837100	C.EL	10uF	16V		
C510	UR837100	C.EL	10uF	16V		
C511	UA652100	C.MYLAR	100pF	50V		
C512	UA652100	C.MYLAR	100pF	50V		
C513	UR837100	C.EL	10uF	16V		
C514	UR837100	C.EL	10uF	16V		
C515	UR837100	C.EL	10uF	16V		
C516	UR837100	C.EL	10uF	16V		
C517	UR837100	C.EL	10uF	16V		
C518	UR837100	C.EL	10uF	16V		
C519	UA654270	C.MYLAR	0.027uF	50V		
C520	UA654270	C.MYLAR	0.027uF	50V		
C521	UR838100	C.EL	100uF	16V		
C522	UR838100	C.EL	100uF	16V		
C523	UA654270	C.MYLAR	0.027uF	50V		
C524	UA654270	C.MYLAR	0.027uF	50V		
C525	UR837100	C.EL	10uF	16V		
C526	UR837100	C.EL	10uF	16V		
C527	UA652820	C.MYLAR	820pF	50V		
C528	UA652820	C.MYLAR	820pF	50V		
C529	UA652820	C.MYLAR	820pF	50V		
C530	UA652820	C.MYLAR	820pF	50V		
C531	UA652820	C.MYLAR	820pF	50V		
C554	UR837100	C.EL	10uF	16V		
C562	UR818330	C.EL	330uF	6.3V		
C612	UA654100	C.MYLAR	0.01uF	50V		

※ New Parts

P.C.B. FUNCTION

	Schm Ref.	PART NO.	Description		Remarks	Markets
	C614	UA652100	C.MYLAR	100pF 50V		
	C615	UA652100	C.MYLAR	100pF 50V		
	C616	UA652100	C.MYLAR	100pF 50V		
	C617	UA652100	C.MYLAR	100pF 50V		
	C618	UA652100	C.MYLAR	100pF 50V		
	C619	UA652100	C.MYLAR	100pF 50V		
	C620	UA652100	C.MYLAR	100pF 50V		
	C621	UA652100	C.MYLAR	100pF 50V		
	C622	FG651470	C.CE	47pF 50V		
	C623	FG651470	C.CE	47pF 50V		
	C624	UR837100	C.EL	10uF 16V		
	C625	UR837100	C.EL	10uF 16V		
	C626	UA653470	C.MYLAR	4700pF 50V		
	C655	UR838100	C.EL	100uF 16V		
	C656	UR838100	C.EL	100uF 16V		
	C657	UR867100	C.EL	10uF 50V		
	C658	UR867100	C.EL	10uF 50V		
	C659	UR838100	C.EL	100uF 16V		
	C660	UA654100	C.MYLAR	0.01uF 50V		
	C661	UR867100	C.EL	10uF 50V		
⚠	C662	UR73A100	C.EL	10000uF 16V		
⚠	C663	UR759220	C.EL	2200uF 35V		
⚠	C664	UR759100	C.EL	1000uF 35V		
	C665	VE326000	C.MYLAR.ML	0.1uF 50V		
	C666	VE326000	C.MYLAR.ML	0.1uF 50V		
	C667	VE326000	C.MYLAR.ML	0.1uF 50V		
	C668	VE326000	C.MYLAR.ML	0.1uF 50V		
	C669	VE326000	C.MYLAR.ML	0.1uF 50V		
	D431	VU172500	DIODE.ZENR	UDZS9.1B		
	D432	VT332900	DIODE	1SS355		
	D433	VT332900	DIODE	1SS355		
	D451	VU994300	DIODE.ZENR	MA8075-H 7.7V		
	D452	VU994300	DIODE.ZENR	MA8075-H 7.7V		
	D551	VU172100	DIODE.ZENR	UDZS6.2B 6.2V		
	D552	VU172100	DIODE.ZENR	UDZS6.2B 6.2V		
⚠	D653	WA653100	DIODE.BRG	KBP103G 1.0A 200V		
⚠	D654	WA653100	DIODE.BRG	KBP103G 1.0A 200V		
*	IC451	X5092A00	IC	BD3816K1		
	IC452	X3505A00	IC	NJM2068MD-TE2		
	IC453	X3505A00	IC	NJM2068MD-TE2		
	IC454	X3505A00	IC	NJM2068MD-TE2		
	IC455	X3505A00	IC	NJM2068MD-TE2		
	IC456	X3505A00	IC	NJM2068MD-TE2		
	IC551	X2874A00	IC	M66003-0101FP FLD		
⚠	IC651	X4153A00	IC	KIA7812PI		
⚠	IC652	X4154A00	IC	KIA7912API		
⚠	IC653	X4928A00	IC	KIA7805API 5V		
	JK431	V9408200	JACK.PHONE	MSJ-064-05B GR		
	PJ451	V7190400	JACK.PIN	6P		
	PJ452	V7046800	JACK.PIN	6P MSP-246V1-01NI		
	PJ611	V7189700	JACK.PIN	1P		
	PJ612	V7046700	JACK.PIN	4P MSP-244V1-01NI		
	PJ613	V7046800	JACK.PIN	6P MSP-246V1-01NI		

* New Parts

P.C.B. FUNCTION

	Schm Ref.	PART NO.	Description		Remarks	Markets
	Q451	iC181510	TR	2SC1815 Y		
	Q452	iA101510	TR	2SA1015 Y		
	Q453	VD303700	TR	2SC3326 A,B		
	Q454	VD303700	TR	2SC3326 A,B		
	Q455	VD303700	TR	2SC3326 A,B		
	Q456	VD303700	TR	2SC3326 A,B		
	Q551	VV556400	TR	2SC2412K Q,R,S		
	Q552	VV556400	TR	2SC2412K Q,R,S		
	Q553	VV556400	TR	2SC2412K Q,R,S		
	Q554	VV556400	TR	2SC2412K Q,R,S		
	Q555	VV556400	TR	2SC2412K Q,R,S		
	Q556	VV556400	TR	2SC2412K Q,R,S		
	Q611	VD303700	TR	2SC3326 A,B		
	Q612	VD303700	TR	2SC3326 A,B		
	R431	VP940800	R.MTL.OXD	470Ω 1W		
	R432	VP940800	R.MTL.OXD	470Ω 1W		
	R483	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R484	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R589	HV755100	R.CAR.FP	100Ω 1/4W		
	R592	HV755100	R.CAR.FP	100Ω 1/4W		
	R651	HV753470	R.CAR.FP	4.7Ω 1/4W		
	R652	HV753470	R.CAR.FP	4.7Ω 1/4W		
	R657	HV753100	R.CAR.FP	1Ω 1/4W		
	R658	HV753100	R.CAR.FP	1Ω 1/4W		
	R660	VP939500	R.MTL.FLM	1Ω 1W		
*	ST431	WA789700	SCR.TERM			
	ST451	WA789600	SCR.TERM	M3		
	SW551	V9281300	SW.RT.ENC	EVEKD2F3024B		
	SW552	VV020300	SW.TACT	SKQNAA		
	SW553	VV020300	SW.TACT	SKQNAA		
	SW554	VV020300	SW.TACT	SKQNAA		
	SW555	VV020300	SW.TACT	SKQNAA		
	SW556	VV020300	SW.TACT	SKQNAA		
	SW557	VV020300	SW.TACT	SKQNAA		
	SW558	VV020300	SW.TACT	SKQNAA		
	SW559	VV020300	SW.TACT	SKQNAA		
	SW560	VV020300	SW.TACT	SKQNAA		
	SW561	VV020300	SW.TACT	SKQNAA		
	SW562	VV020300	SW.TACT	SKQNAA		
	SW563	VV020300	SW.TACT	SKQNAA		
	SW564	VV020300	SW.TACT	SKQNAA		
	SW565	VV020300	SW.TACT	SKQNAA		
	SW566	VV020300	SW.TACT	SKQNAA		
	SW567	VV020300	SW.TACT	SKQNAA		
	SW567	VV020300	SW.TACT	SKQNAA		BGE
	SW568	VV020300	SW.TACT	SKQNAA		
	SW569	VV020300	SW.TACT	SKQNAA		
	SW569	VV020300	SW.TACT	SKQNAA		BGE
	SW570	VV020300	SW.TACT	SKQNAA		
	SW571	VV020300	SW.TACT	SKQNAA		
	SW571	VV020300	SW.TACT	SKQNAA		BGE
	SW572	VV020300	SW.TACT	SKQNAA		
	SW573	VV020300	SW.TACT	SKQNAA		

✻ New Parts

P.C.B. FUNCTION & P.C.B. MAIN

	Schm Ref.	PART NO.	Description		Remarks	Markets
	SW573	VV020300	SW.TACT	SKQNAA		BGE
	SW671	VV020300	SW.TACT	SKQNAA		
	SW691	VZ075500	SW.SLIDE	SL14-22AM5F		RL
*	U551	WC746300	L.DTCT	RPM7138-H9		
*	V551	WC173100	FL.DSPLY	16-BT-122GNK		
		WA790800	SHEET			
		WA790900	SPACER	4.6/10/32		
*		WC762300	P.C.B.	MAIN		UC
*		WC762400	P.C.B.	MAIN		R
*		WC762500	P.C.B.	MAIN		T
*		WC762600	P.C.B.	MAIN		K
*		WC762700	P.C.B.	MAIN		A
*		WC762800	P.C.B.	MAIN		BGE
*		WD043700	P.C.B.	MAIN		L
	CB101	VQ963000	CN.BS.PIN	9P		
	CB102	VQ584800	CN.BS.PIN	6P		
	CB103	VK024700	CN.BS.PIN	3P		
	CB104	LB932040	CN.BS.PIN	4P		
	CB105	Vi878200	CN.BS.PIN	4P		
	CB242	VM859600	CN.BS.PIN	15P		
	CB244	VQ963300	CN.BS.PIN	12P		
	CB245	Vi878300	CN.BS.PIN	5P		
	CB246	VF728200	CN.BS.PIN	10P		
	CB247	VQ963000	CN.BS.PIN	9P		
	CB248	VQ044400	CN.BS.PIN	9P		
	CB249	VQ963500	CN.BS.PIN	14P		
	CB371	Vi878100	CN.BS.PIN	3P		
	CB372	VP206500	HOLDER.FUS	EYF-52BCT		
	CB373	VP206500	HOLDER.FUS	EYF-52BCT		
	CB374	VG879900	CN.BS.PIN	2P		
	CB375	VG879900	CN.BS.PIN	2P		
	CB391	VK026400	CN.BS.PIN	5P		
	CB411	VQ584800	CN.BS.PIN	6P		
	C101	UA654100	C.MYLAR	0.01uF 50V		
	C102	UR877100	C.EL	10uF 63V		
	C103	UR877100	C.EL	10uF 63V		
	C104	UR877100	C.EL	10uF 63V		
	C105	UR877100	C.EL	10uF 63V		
	C106	UR877100	C.EL	10uF 63V		
	C107	UA652220	C.MYLAR	220pF 50V		
	C108	UA652220	C.MYLAR	220pF 50V		
	C109	UA652220	C.MYLAR	220pF 50V		
	C110	UA652220	C.MYLAR	220pF 50V		
	C111	UA652220	C.MYLAR	220pF 50V		
	C112	UR877100	C.EL	10uF 63V		
	C113	UR877100	C.EL	10uF 63V		
	C114	UR867330	C.EL	33uF 50V		
	C115	UA652100	C.MYLAR	100pF 50V		
	C116	UR877100	C.EL	10uF 63V		
	C117	UR877220	C.EL	22uF 63V		

* New Parts

P.C.B. MAIN

	Schm Ref.	PART NO.	Description			Remarks	Markets
	C118	UR877100	C.EL	10uF	63V		
	C119	UR877220	C.EL	22uF	63V		
	C120	FG651100	C.CE	10pF	50V		
	C122	UR877100	C.EL	10uF	63V		
	C123	UR877100	C.EL	10uF	63V		
	C124	UR877100	C.EL	10uF	63V		
	C125	UA652100	C.MYLAR	100pF	50V		
	C126	UA652100	C.MYLAR	100pF	50V		
	C127	UR867330	C.EL	33uF	50V		
	C128	UR867330	C.EL	33uF	50V		
	C129	UR867330	C.EL	33uF	50V		
	C130	UR867330	C.EL	33uF	50V		
	C131	UA652100	C.MYLAR	100pF	50V		
	C132	UR877220	C.EL	22uF	63V		
	C133	UA652100	C.MYLAR	100pF	50V		
	C134	UR876470	C.EL	4.7uF	63V		
	C135	FG651100	C.CE	10pF	50V		
	C136	FG651100	C.CE	10pF	50V		
	C137	FG651100	C.CE	10pF	50V		
	C138	FG651100	C.CE	10pF	50V		
	C139	VE326000	C.MYLAR.ML	0.1uF	50V		
	C140	VE326000	C.MYLAR.ML	0.1uF	50V		
	C141	VE326000	C.MYLAR.ML	0.1uF	50V		
	C142	VE326000	C.MYLAR.ML	0.1uF	50V		
	C143	VE326000	C.MYLAR.ML	0.1uF	50V		
	C144	UR876470	C.EL	4.7uF	63V		
	C145	UR828100	C.EL	100uF	10V		
	C146	UR858100	C.EL	100uF	35V		
	C147	UR866470	C.EL	4.7uF	50V		
	C148	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C149	UR868100	C.EL	100uF	50V		
	C150	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C151	UA654100	C.MYLAR	0.01uF	50V		
*	C152	WC869200	C.EL	6800uF	63V		UCRTKAL
*	C152	WC998700	C.EL	6800uF	63V		BGE
*	C153	WC869200	C.EL	6800uF	63V		UCRTKAL
*	C153	WC998700	C.EL	6800uF	63V		BGE
	C154	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C155	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C156	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C157	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C158	UA654100	C.MYLAR	0.01uF	50V		
	C159	VT898000	C.MYLAR	0.1uF	100V		
	C160	VT898000	C.MYLAR	0.1uF	100V		
	C161	UR866100	C.EL	1uF	50V		
	C162	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C163	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C164	UA652100	C.POL	100pF	50V		KABGEL
	C165	UA652100	C.POL	100pF	50V		KABGEL
	C243	UR819100	C.EL	1000uF	6.3V		
	C244	UR819100	C.EL	1000uF	6.3V		
	C248	UR866100	C.EL	1uF	50V		
	C253	UR857470	C.EL	47uF	35V		

* New Parts

RX-V350/HTR-5730

P.C.B. MAIN

	Schm Ref.	PART NO.	Description			Remarks	Markets
	C254	UR877100	C.EL	10uF	63V		
	C256	UR847470	C.EL	47uF	25V		
	C258	WB165500	C.EL	0.33F	5.5V		
	C259	UR818220	C.EL	220uF	6.3V		
	C260	UR847470	C.EL	47uF	25V		
	C261	UR837330	C.EL	33uF	16V		
	C263	UR877100	C.EL	10uF	63V		
	C264	UR818470	C.EL	470uF	6.3V		
	C274	UR847470	C.EL	47uF	25V		BGE
	C275	UR847470	C.EL	47uF	25V		BGE
	C277	VA761100	C.CE	27pF	50V		BGE
	C279	VA761100	C.CE	27pF	50V		BGE
	C280	UR847470	C.EL	47uF	25V		BGE
	C283	UR866220	C.EL	2.2uF	50V		
	C284	UR866220	C.EL	2.2uF	50V		
	C285	UR866220	C.EL	2.2uF	50V		
	C286	UR866220	C.EL	2.2uF	50V		
	C371	UR858470	C.EL	470uF	35V		
	C372	UA654100	C.MYLAR	0.01uF	50V		
	C373	UR867100	C.EL	10uF	100V		RL
	C374	UA654100	C.MYLAR	0.01uF	50V		UCTKABGE
	C375	UA654100	C.MYLAR	0.01uF	50V		RL
	C376	UA654100	C.MYLAR	0.01uF	50V		RL
⚠	C377	WB121400	C.CE.SAFTY	0.01uF	295V		
	C393	UR877100	C.EL	10uF	63V		
	C394	UR877100	C.EL	10uF	63V		
	C395	UR877100	C.EL	10uF	63V		
	C396	UR877100	C.EL	10uF	63V		
	C397	UR829100	C.EL	1000uF	10V		
	C398	UR829100	C.EL	1000uF	10V		
	C401	UR838100	C.EL	100uF	16V		
	C411	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C412	UA654100	C.MYLAR	0.01uF	50V		RTKABGEL
	C415	UA654100	C.MYLAR	0.01uF	50V		
	C415	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C416	UA654100	C.MYLAR	0.01uF	50V		KABGEL
	C417	UA652100	C.POL	100pF	50V		KABGEL
	D101	VT332900	DIODE	1SS355			
	D102	VT332900	DIODE	1SS355			
⚠	D103	VD631600	DIODE	1SS133,176			
	D104	VD631600	DIODE	1SS133,176			
	D105	VD631600	DIODE	1SS133,176			
	D106	VG441600	DIODE.ZENR	MTZJ20A	20V		
	D106	VG441600	DIODE.ZENR	MTZJ20A	20V		RTKABGEL
	D106	VG441700	DIODE.ZENR	MTZJ20B	20V		UC
*	D107	WC398800	DIODE	KDS160-RTK			
	D108	VN008700	DIODE	1SS270A			
	D109	VN008700	DIODE	1SS270A			
*	D110	WC398800	DIODE	KDS160-RTK			
	D111	VN008700	DIODE	1SS270A			
	D112	VN008700	DIODE	1SS270A			
	D113	VN008700	DIODE	1SS270A			
	D114	VN008700	DIODE	1SS270A			

* New Parts

P.C.B. MAIN

	Schm Ref.	PART NO.	Description		Remarks	Markets
	D115	VN008700	DIODE	1SS270A		
	D116	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D117	VN008700	DIODE	1SS270A		
	D118	VD631600	DIODE	1SS133,176		
	D119	VD631600	DIODE	1SS133,176		
	D120	VG443200	DIODE.ZENR	MTZJ30A 30V		
	D121	VD631600	DIODE	1SS133,176		
	D122	WA653200	DIODE.BRG	TS6P03G 6.0A 200V		
	D123	VD631600	DIODE	1SS133,176		
	D241	VT332900	DIODE	1SS355		
	D242	VT332900	DIODE	1SS355		
	D243	VU172200	DIODE.ZENR	UDZ6.8B 6.8V		
	D244	VT332900	DIODE	1SS355		
	D245	VU172100	DIODE.ZENR	UDZS6.2B 6.2V		
	D246	VT332900	DIODE	1SS355		
	D247	VT332900	DIODE	1SS355		
	D249	VT332900	DIODE	1SS355		
	D250	VU172000	DIODE.ZENR	UDZS5.6BTE-17 5.6V		
	D251	VT332900	DIODE	1SS355		
	D252	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D254	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D255	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D256	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D257	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D258	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D259	VU171900	DIODE.ZENR	UDZ5.1B 5.1V		
	D371	VD631600	DIODE	1SS133,176		
	D372	VG437000	DIODE.ZENR	MTZJ4.7A 4.7V		RL
⚠	D373	VS997800	DIODE	1T2		
⚠	D374	VS997800	DIODE	1T2		
⚠	D375	VS997800	DIODE	1T2		RL
⚠	D376	VS997800	DIODE	1T2		
⚠	D377	VS997800	DIODE	1T2		
	D411	VD631600	DIODE	1SS133,176		
* ⚠	F371	WB221200	FUSE	T6A 125V		UCRL
* ⚠	F371	VV071700	FUSE	TSD 3.15A 250V SEM		TKABGE
* ⚠	F371	WB221200	FUSE	T6A 125V		UCRL
* ⚠	IC101	X5064A00	IC	STK404-130Y 130W		
* ⚠	IC102	X5063A00	IC	STK403-130Y 130W		
* ⚠	IC103	X5063A00	IC	STK403-130Y 130W		
	IC241	X0082A00	IC	LC72722PM		
	IC241	X0082A00	IC	LC72722PM		BGE
*	IC242	X5228A00	IC.CPU	M30622MGP-151FP	MASK ROM	
	IC391	XH436A00	IC	LA7956		
	PJ391	V7190000	JACK.PIN	2P		
	PJ392	V7190000	JACK.PIN	2P		
	PJ393	V7190000	JACK.PIN	2P		
	PN412	WB213200	PIN	L=70 WB21320		
⚠	Q101	VD303700	TR	2SC3326 A,B		
⚠	Q102	VD303700	TR	2SC3326 A,B		
⚠	Q103	VD303700	TR	2SC3326 A,B		
⚠	Q104	VD303700	TR	2SC3326 A,B		
⚠	Q105	VD303700	TR	2SC3326 A,B		

＊ New Parts

P.C.B. MAIN

	Schm Ref.	PART NO.	Description		Remarks	Markets
	Q106	V3966800	TR	2SB949 O,Y		
*	Q107	WC398400	TR	2SC2N5551C-AT		
⚠	Q108	VC407900	TR	2SD1913 R,S		
⚠	Q109	VC614000	TR	2SB1274 Q,R,S		
*	Q110	WC397700	TR	2SA2N5401C-AT		
* ⚠	Q111	WC397700	TR	2SA2N5401C-AT		
*	Q112	WC398400	TR	2SC2N5551C-AT		
*	Q113	WC398400	TR	2SC2N5551C-AT		
*	Q114	WC398400	TR	2SC2N5551C-AT		
*	Q115	WC398400	TR	2SC2N5551C-AT		
*	Q116	WC398400	TR	2SC2N5551C-AT		
*	Q117	WC397700	TR	2SA2N5401C-AT		
*	Q118	WC434900	TR.DGT	KRA104S-RTK		
*	Q119	WC434900	TR.DGT	KRA104S-RTK		
*	Q120	WC434900	TR.DGT	KRA104S-RTK		
	Q121	iA101510	TR	2SA1015 Y		
*	Q122	WC434900	TR.DGT	KRA104S-RTK		
	Q123	iC181510	TR	2SC1815 Y		
*	Q124	WC434900	TR.DGT	KRA104S-RTK		
	Q243	VP872700	TR	2SC4488 S,T		
	Q244	VP872600	TR	2SA1708 S,T		
*	Q245	WC435000	TR.DGT	KRC102S-RTK		
*	Q246	WC435100	TR.DGT	KRC104S-RTK		
	Q247	iC181510	TR	2SC1815 Y		
*	Q248	WC435100	TR.DGT	KRC104S-RTK		
	Q249	VP872700	TR	2SC4488 S,T		RL
*	Q250	WC435100	TR.DGT	KRC104S-RTK		
	Q251	iC174020	TR	2SC1740S R,S		BGE
	Q251	iC174020	TR	2SC1740S R,S		
*	Q252	WC435100	TR.DGT	KRC104S-RTK		
	Q254	VV556500	TR	2SA1037K Q,R,S		
	Q255	VV556500	TR	2SA1037K Q,R,S		
	Q256	VV556500	TR	2SA1037K Q,R,S		
	Q257	VV556500	TR	2SA1037K Q,R,S		
	Q258	VV556500	TR	2SA1037K Q,R,S		
	Q259	VV556400	TR	2SC2412K Q,R,S		
	Q260	VV556500	TR	2SA1037K Q,R,S		
	Q261	VV556400	TR	2SC2412K Q,R,S		
*	Q262	WC398600	TR.DGT	KRA104M-AT		
	Q371	VE198800	TR	2SC2705 O,Y		
	Q372	iA101510	TR	2SA1015 Y		RL
	Q373	VP872600	TR	2SA1708 S,T		RL
	Q374	iA101510	TR	2SA1015 Y		RL
*	Q375	WC529200	TR.DGT	KRC102M-AT		RL
	Q391	iC181510	TR	2SC1815 Y		
	Q392	iC181510	TR	2SC1815 Y		
	Q393	iC174020	TR	2SC1740S R,S		
	R121	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R122	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R125	HV753220	R.CAR.FP	2.2Ω 1/4W		
	R126	HV753220	R.CAR.FP	2.2Ω 1/4W		
⚠	R129	HV754470	R.CAR.FP	47Ω 1/4W		
	R130	HV753220	R.CAR.FP	2.2Ω 1/4W		

* New Parts

RX-V350/HTR-5730

P.C.B. MAIN

	Schm Ref.	PART NO.	Description			Remarks	Markets
	R132	HV753220	R.CAR.FP	2.2Ω	1/4W		
⚠	R133	HV754100	R.CAR.FP	10Ω	1/4W		
⚠	R143	HV756470	R.CAR.FP	4.7KΩ	1/4W		
⚠	R144	HV754100	R.CAR.FP	10Ω	1/4W		
	R148	WB279900	R.WW	RGC55C	0.22+0.22		
	R156	WB279900	R.WW	RGC55C	0.22+0.22		
	R157	WB279900	R.WW	RGC55C	0.22+0.22		
	R158	WB279900	R.WW	RGC55C	0.22+0.22		
	R159	WB279900	R.WW	RGC55C	0.22+0.22		
	R166	HV753470	R.CAR.FP	4.7Ω	1/4W		
⚠	R171	VP939700	R.MTL.FLM	4.7Ω	1W		
	R178	HV753470	R.CAR.FP	4.7Ω	1/4W		
	R180	HV753470	R.CAR.FP	4.7Ω	1/4W		
	R182	HV753470	R.CAR.FP	4.7Ω	1/4W		
	R184	HV753470	R.CAR.FP	4.7Ω	1/4W		
	R190	VP939700	R.MTL.FLM	4.7Ω	1W		
⚠	R191	VP939700	R.MTL.FLM	4.7Ω	1W		
⚠	R192	VP939700	R.MTL.FLM	4.7Ω	1W		
⚠	R193	VP939700	R.MTL.FLM	4.7Ω	1W		
	R198	HV756470	R.CAR.FP	4.7KΩ	1/4W		
	R201	HV755330	R.CAR.FP	330Ω	1/4W		
	R204	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	R206	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	R208	HV753220	R.CAR.FP	2.2Ω	1/4W		
	R216	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	R217	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	R243	HV753220	R.CAR.FP	2.2Ω	1/4W		
	R378	VC757900	R.MTL.OXD	47Ω	2W		RL
	R380	V6730000	R.CAR.	2.2MΩ	1/2W		UC
	R399	HV755270	R.CAR.FP	270Ω	1/4W		
	R405	HV753220	R.CAR.FP	2.2Ω	1/4W		
	R411	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	R414	HV753220	R.CAR.FP	2.2Ω	1/4W		RTKABGEL
	RY101	V5966300	RELAY	DS24D2-0S(M)			
	RY102	V5966300	RELAY	DS24D2-0S(M)			
	RY104	V5178900	RELAY	DC DQ24D1-0S(M)			
	RY105	V5966300	RELAY	DS24D2-0S(M)			
⚠	RY371	V2712300	RELAY	DC SDT-S-112LMR			
	RY411	V5966300	RELAY	DS24D2-0S(M)			
	ST241	WA789600	SCR.TERM	M3			
	ST371	WA789600	SCR.TERM	M3			
	SW391	V3624300	SW.SLIDE	SS029-P022MJB-PA6			RL
⚠	T371	XW606A00	TRANS.PWR				UC
⚠	T371	XW974A00	TRANS.PWR				RL
⚠	T371	XW608A00	TRANS.PWR				T
⚠	T371	XW608A00	TRANS.PWR				KABGE
	TE101	VY696300	TERM.SP	4P			UCRTA
	TE101	VY696400	TERM.SP	4P			KBGEL
	TE102	WB054000	TERM.SP	YKD21-5002N			
	TE411	WB054100	TERM.SP	YKD21-5004N			
	XL241	V3930900	RSNR.CRYS	4.332MHz			BGE
	XL242	WB213000	RSNR.CE	16.0MHz			
		EP600140	SCR.BND.HD	3x10	MFZN2BL		

✻ New Parts

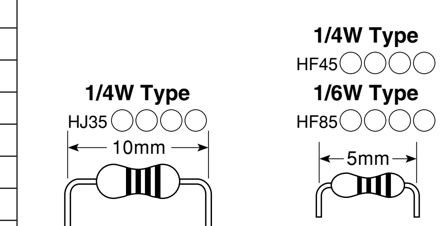
Cip Parts

Schm Ref.	PART NO.	Description			Remarks	Markets
	US061100	C.CE.M.CHP	10pF	50V		
	US061180	C.CE.CHP	18pF	50V		
	US061220	C.CE.M.CHP	22pF	50V		
	US061330	C.CE.M.CHP	33pF	50V		
	US061470	C.CE.M.CHP	47pF	50V		
	US062100	C.CE.M.CHP	100pF	50V		
	US062220	C.CE.CHP	220pF	50V		
	US062330	C.CE.M.CHP	330pF	50V		
	US062470	C.CE.M.CHP	470pF	50V		
	US062560	C.CE.CHP	560pF	50V		
	US063100	C.CE.M.CHP	1000pF	50V		
	US063470	C.CE.CHP	4700pF	50V		
	US064100	C.CE.M.CHP	0.01uF	50V		
	US135100	C.CE.CHP	0.1uF	16V		
	US135220	C.CE.CHP	0.22uF	16V		
	RD350000	R.CHP	0Ω	1/16W		
	RD353220	R.CHP	2.2Ω	1/16W		
	RD354150	R.CHP	15Ω	1/16W		
	RD354470	R.CHP	47Ω	1/16W		
	RD354750	R.CHP	75Ω	1/16W		
	RD354820	R.CHP	82Ω	1/16W		
	RD355100	R.CHP	100Ω	1/16W		
	RD355220	R.CHP	220Ω	1/16W		
	RD355470	R.CHP	470Ω	1/16W		
	RD355560	R.CHP	560Ω	1/16W		
	RD355680	R.CHP	680Ω	1/16W		
	RD355820	R.CHP	820Ω	1/16W		
	RD356100	R.CHP	1KΩ	1/16W		
	RD356150	R.CHP	1.5KΩ	1/16W		
	RD356180	R.CHP	1.8KΩ	1/16W		
	RD356200	R.CHP	2KΩ	1/16W		
	RD356220	R.CHP	2.2KΩ	1/16W		
	RD356240	R.CHP	2.4KΩ	1/16W		
	RD356270	R.CHP	2.7KΩ	1/16W		
	RD356330	R.CHP	3.3KΩ	1/16W		
	RD356470	R.CHP	4.7KΩ	1/16W		
	RD356510	R.CHP	5.1KΩ	1/16W		
	RD356560	R.CHP	5.6KΩ	1/16W		
	RD356680	R.CHP	6.8KΩ	1/16W		
	RD356820	R.CHP	8.2KΩ	1/16W		
	RD357100	R.CHP	10KΩ	1/16W		
	RD357150	R.CHP	15KΩ	1/16W		
	RD357180	R.CHP	18KΩ	1/16W		
	RD357220	R.CHP	22KΩ	1/16W		
	RD357330	R.CHP	33KΩ	1/16W		
	RD357470	R.CHP	47KΩ	1/16W		
	RD357680	R.CHP	68KΩ	1/16W		
	RD358100	R.CHP	100KΩ	1/16W		
	RD358220	R.CHP	220KΩ	1/16W		
	RD359100	R.CHP	1MΩ	1/16W		

✻ New Parts

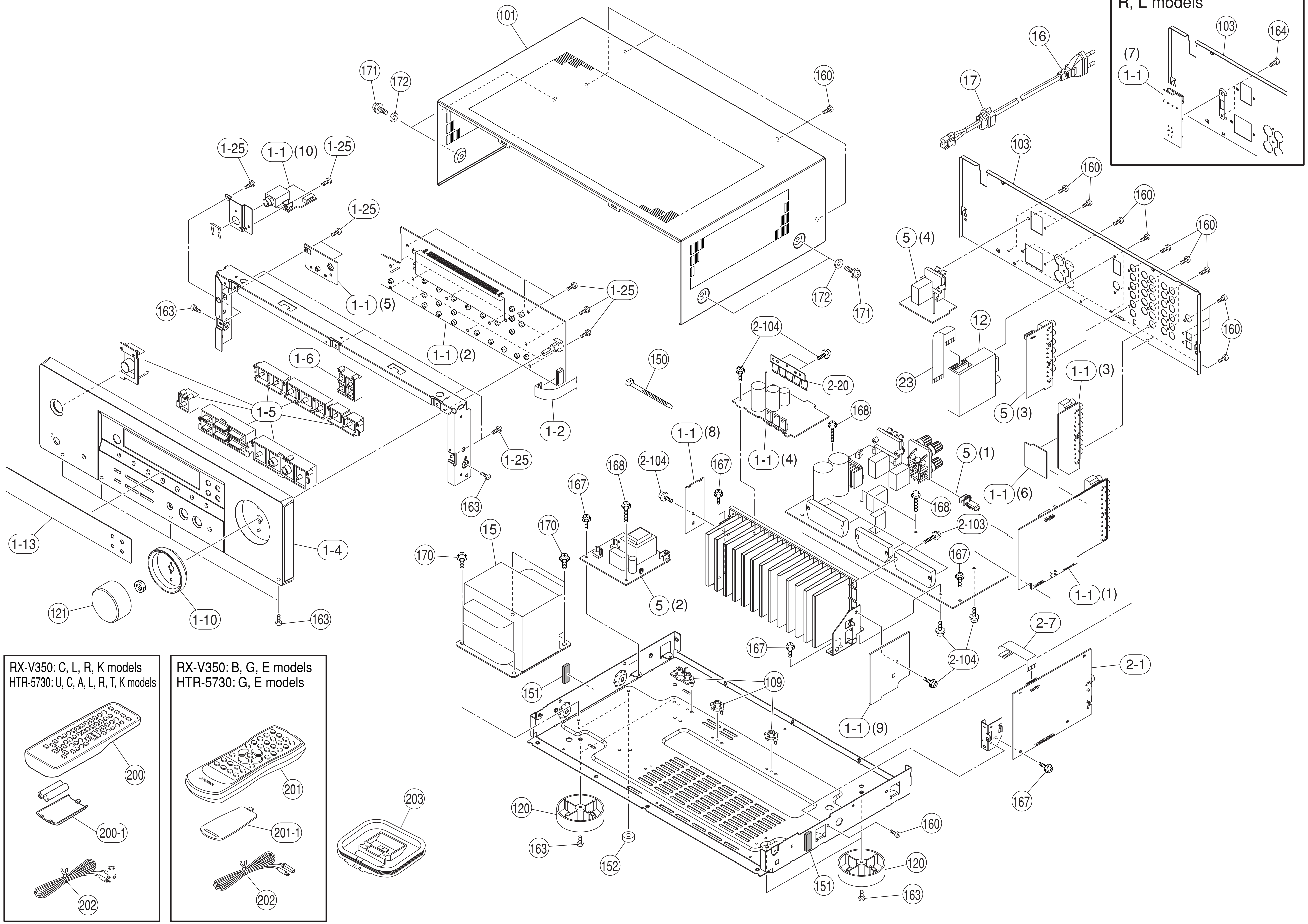
Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	✻	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	✻	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	✻
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	✻
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			



✻ : Not available

■ EXPLODED VIEW



■ MECHANICAL PARTS

	Schm Ref.	PART NO.	Description		Remarks	Markets
*	1-1	WC763100	P.C.B. ASS'Y	FUNC		UCTKA
*	1-1	WC763200	P.C.B. ASS'Y	FUNC		R
*	1-1	WC763300	P.C.B. ASS'Y	FUNC		BGE
*	1-1	WD043900	P.C.B. ASS'Y	FUNC		L
	1-2	MF114180	FLEXIBLE FLAT CABLE	14P 180mm P=1.25		
*	1-4	WC410300	FRONT PANEL		V350GD	TL
*	1-4	WC410600	FRONT PANEL		V350BL (RDS)	BGE
*	1-4	WC410400	FRONT PANEL		V350SI	CRKL
*	1-4	WC410700	FRONT PANEL		V350SI (RDS)	BGE
*	1-4	WC411000	FRONT PANEL		5730GD	T
*	1-4	WC410900	FRONT PANEL		5730BL	UCRA
*	1-4	WC411200	FRONT PANEL		5730BL (RDS)	GE
*	1-4	WC411100	FRONT PANEL		5730SI	UCRTKA
*	1-4	WC411300	FRONT PANEL		5730SI (RDS)	GE
*	1-5	WC411600	BUTTONCASE 350		V350GD,5730GD	
*	1-5	WC411500	BUTTONCASE 350		V350BL	
*	1-5	WC411800	BUTTONCASE 350		5730BL	
*	1-5	WC411700	BUTTONCASE 350		V350SI,5730SI	
*	1-6	WC411900	BUTTON/RDS 350		BL	
*	1-6	WC412000	BUTTON/RDS 350		SI	
*	1-10	WC412300	ESCUTCHEON/VOL		GD	
*	1-10	WC412200	ESCUTCHEON/VOL		BL	
*	1-10	WC412400	ESCUTCHEON/VOL		SI	
*	1-13	WC412800	SHEET, WINDOW		V350,5730	UCRTKAL
*	1-13	WC413000	SHEET, WINDOW		V350	BGE
*	1-13	WC413100	SHEET, WINDOW		5730	GE
	1-25	EP630220	BIND HEAD P-TIGHT SCREW	3x8 MFZN2BL		
*	2-1	WC763500	P.C.B. ASS'Y	DSP		UCRTKABGE
*	2-1	WD044200	P.C.B. ASS'Y	DSP		L
*	2-7	MF111070	FLEXIBLE FLAT CABLE	11P 70mm P=1.25		
*	2-20	WC656100	SUPPORT/TR 5P			
	2-103	VK865300	HEX. HEAD TAP. SCREW WITH WS	3x18 MFC2BL		
	2-104	VT669300	PW HEAD B-TIGHT SCREW	3x8-8 MFC2		
*	5	WC762300	P.C.B. ASS'Y	MAIN		UC
*	5	WC762400	P.C.B. ASS'Y	MAIN		R
*	5	WC762500	P.C.B. ASS'Y	MAIN		T
*	5	WC762600	P.C.B. ASS'Y	MAIN		K
*	5	WC762700	P.C.B. ASS'Y	MAIN		A
*	5	WC762800	P.C.B. ASS'Y	MAIN		BGE
*	5	WD043700	P.C.B. ASS'Y	MAIN		L
	12	V6782300	AM/FM TUNER	TFCE1U115A		UCRTL
	12	V6782400	AM/FM TUNER	TFCE1E317A		KABGE
* ⚠	15	X5276A00	POWER TRANSFORMER			UC
* ⚠	15	X5278A00	POWER TRANSFORMER			RL
* ⚠	15	X5279A00	POWER TRANSFORMER			TK
* ⚠	15	X5280A00	POWER TRANSFORMER			A
* ⚠	15	X5277A00	POWER TRANSFORMER			BGE
* ⚠	16	WB120500	POWER CABLE	ME301P/TER		UC
⚠	16	WC992700	POWER CABLE	2m		R
⚠	16	WB120600	POWER CABLE	2m		T
⚠	16	WC753000	POWER CABLE	2m		K
⚠	16	WC743700	POWER CABLE	2m		A

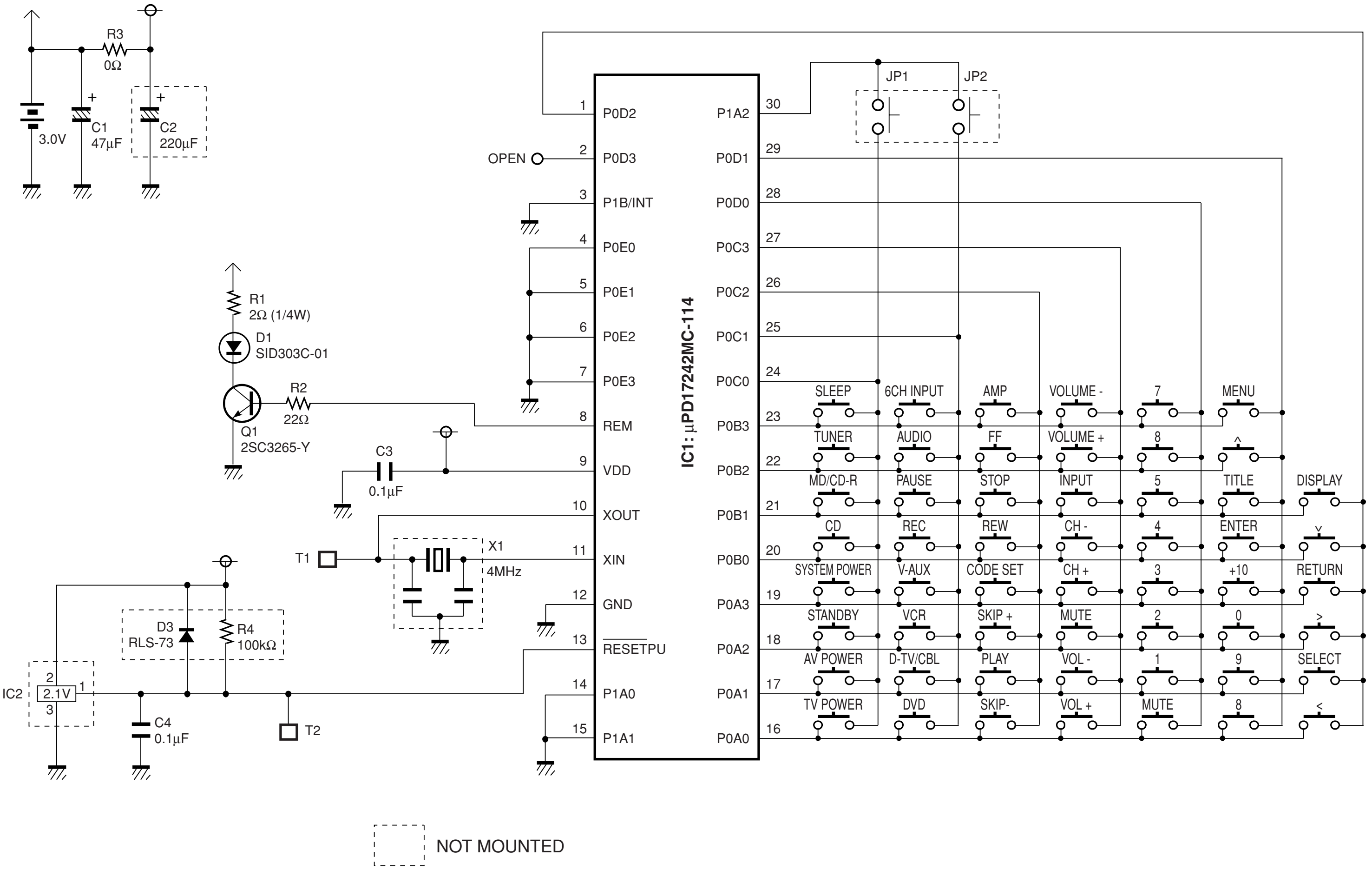
✻ New Parts

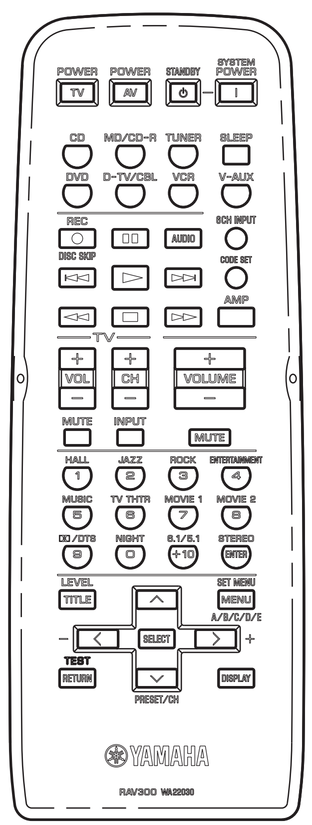
	Schm Ref.	PART NO.	Description		Remarks	Markets
⚠	16	WB212200	POWER CABLE	2m		B
⚠	16	WB212300	POWER CABLE	2m		GEL
	17	V2438700	CORD STOPPER	10P1		
	23	MF115140	FLEXIBLE FLAT CABLE	15P 140mm P=1.25		
	101	WA792200	TOP COVER		GD	
	101	WA791900	TOP COVER		BL	
	101	WA792000	TOP COVER		SI	
*	103	WC408700	REAR PANEL		V350	C
*	103	WC408800	REAR PANEL		V350	R
*	103	WC408900	REAR PANEL		V350	T
*	103	WC408900	REAR PANEL		V350	K
*	103	WC409200	REAR PANEL		V350	L
*	103	WC409300	REAR PANEL		V350	BGE
*	103	WC409500	REAR PANEL		5730	UC
*	103	WC409600	REAR PANEL		5730	R
*	103	WC409700	REAR PANEL		5730	TK
*	103	WC409800	REAR PANEL		5730	A
*	103	WC410000	REAR PANEL		5730	GE
	109	WA796100	SUPPORT, PCB			
	120	WA790500	LEG (HS)	D60/H21	SI,V350BL	
	120	WA790600	LEG	D60/H21	GD	
	120	WA790700	LEG (BL)	D60/H21	5730BL	
*	121	WC412600	KNOB D48		GD	
*	121	WC412500	KNOB D48		BL	
*	121	WC412700	KNOB D48		SI	
	150	WB408000	BINDING TIE	GT-100M HUA WEI		
	151	WB408400	DAMPER			
	152	WB484700	DAMPER	SCREW MASK		
	160	VN413300	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2BL		
	163	EP600250	BIND HEAD B-TIGHT SCREW	3x8 MFZN2Y		
	164	EG330030	BIND HEAD SCREW	3x6 MFC2BL		RL
	167	VT669300	PW HEAD B-TIGHT SCREW	3x8-8 MFC2		
	168	VT669400	PW HEAD B-TIGHT SCREW	3x15-8 MFC2		
	170	21991500	PW HEAD P-TIGHT SCREW	4x8-10 MFC2BL		
	171	VD069600	PW HEAD S-TIGHT SCREW	4x8-10 MFNI33	GD,SI	
	171	21991500	PW HEAD P-TIGHT SCREW	4x8-10 MFC2BL	BL	
*	172	WB973900	WASHER	3.9x9		
			ACCESSORIES			
	200	WA220300	REMOTE CONTROL	RAV300	RRC4001-1001LC	UCRTKAL
	200-1	AAX46580	BATTERY COVER		103RRC-244-01G	UCRTKAL
	201	WA617700	REMOTE CONTROL	RAV16	RC1112921/00	BGE
	201-1	AAX49660	BATTERY COVER		3139 224 22451	BGE
	202	WB212500	INDOOR FM ANTENNA	1.4m 1pc		UCRT
	202	WB212400	INDOOR FM ANTENNA	1.4m 1pc		KABGE
	202	V6267000	INDOOR FM ANTENNA	1.4m 1pc		L
	203	WB212600	AM LOOP ANTENNA	1.0m 1pc		UCRTKABGE
	203	VR248500	AM LOOP ANTENNA	1.0m 1pc		L
			BATTERY, MANGANESE DRY	2PC R6CP		

✻ New Parts

■ REMOTE CONTROL RAV300 (RX-V350: C, L, R, K models / HTR-5730: U, C, A, L, R, T, K models)

● SCHEMATIC DIAGRAM

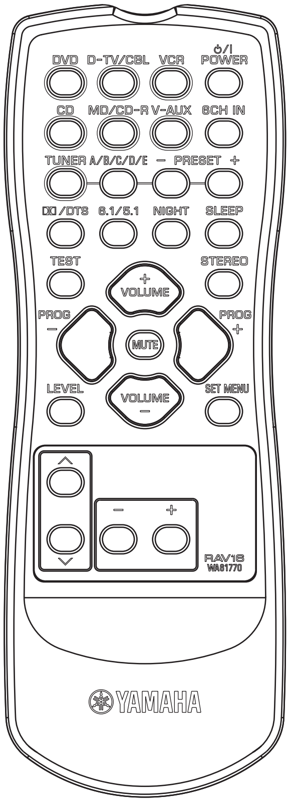




Key No.	Function	CODE								
		AMP	CD	MD	CD-R	TUNER	DVD (P)	DVD (Y)	DVD (M)	DVD-R (P)
1	TV POWER	–	–	–	–	–	–	–	–	–
2	AV POWER	–	–	–	7F-80	–	A5-AA	7C-80	3D-8D	A5-AA
3	STANDBY	7A-1E	–	–	–	–	–	–	–	–
4	SYSTEM POWER	7A-1D	–	–	–	–	–	–	–	–
5	CD	7A-15	–	–	–	–	–	–	–	–
6	MD/CD-R	7A-C9	–	–	–	–	–	–	–	–
7	TUNER	7A-16	–	–	–	–	–	–	–	–
8	SLEEP	7A-57	–	–	–	–	–	–	–	–
9	DVD	7A-C1	–	–	–	–	–	–	–	–
10	D-TV/CBL	7A-54	–	–	–	–	–	–	–	–
11	VCR	7A-0F	–	–	–	–	–	–	–	–
12	V-AUX	7A-55	–	–	–	–	–	–	–	–
13	REC, DISC SKIP	–	7A-4F	79-AF	–	–	55-56	7C-8B	–	56-5A
14	PAUSE	–	7A-09	79-A9	7F-83	–	AA-5A	7C-83	06-B6	AA-5A
15	AUDIO	–	–	–	–	–	95-A6	7C-AD	33-83	95-A6
16	6CH INPUT	7A-87	–	–	–	–	–	–	–	–
17	SKIP -	–	7A-0B	79-AB	7F-86	–	6A-9A	7CB9	49-F9	6A-9A
18	PLAY	–	7A-08	79-A8	7F-82	–	A5-9A	7C-82	0A-BA	A5-9A
19	SKIP +	–	7A-0A	79-AE	7F-87	–	AA-9A	7C-BA	4A-FA	AA-9A
20	CODE SET	–	–	–	–	–	–	–	–	–
21	REW	–	7A-0D	79-AC	7F-88	–	69-9A	7C-86	04-B4	69-9A
22	STOP	–	7A-09	79-AA	7F-84	–	6A-5A	7C-85	00-B0	6A-5A
23	FF	–	7A-0C	79-AD	7F-89	–	A9-9A	7C-87	05-B5	A9-9A
24	AMP	–	–	–	–	–	–	–	–	–
25	TV VOL +	–	–	–	–	–	–	–	–	–
26	TV VOL –	–	–	–	–	–	–	–	–	–
27	TV MUTE	–	–	–	–	–	–	–	–	–
28	TV CH +	–	–	–	–	–	–	–	–	–
29	TV CH –	–	–	–	–	–	–	–	–	–
30	TV INPUT	–	–	–	–	–	–	–	–	–
31	VOLUME +	7A-1A	–	–	–	–	–	–	–	–
32	VOLUME –	7A-1B	–	–	–	–	–	–	–	–
33	MUTE	7A-1C	–	–	–	–	–	–	–	–
34	1	7A-88	79-11	79-85	7F-91	7A-E5	6A-AA	7C-94	10-A0	6A-AA
35	2	7A-89	79-12	79-86	7F-92	7A-E6	9A-AA	7C-95	11-A1	9A-AA
36	3	7A-8A	79-13	79-87	7F-93	7A-E7	5A-AA	7C-96	12-A2	5A-AA
37	4	7A-8B	79-14	79-88	7F-94	7A-E8	A6-AA	7C-97	13-A3	A6-AA
38	5	7A-8C	79-15	79-89	7F-95	7A-E9	66-AA	7C-98	14-A4	66-AA
39	6	7A-8D	79-16	79-8A	7F-96	7A-EA	96-AA	7C-99	15-A5	96-AA
40	7	7A-8E	79-17	79-8B	7F-97	7A-EB	56-AA	7C-9A	16-A6	56-AA
41	8	7A-8F	79-18	79-8C	7F-98	7A-EC	A9-AA	7C-9B	17-A7	A9-AA
42	9	7A-90	79-19	79-8D	7F-99	–	69-AA	7C-9C	18-A8	69-AA
43	0	7A-95	79-10	79-8E	7F-90	–	AA-AA	7C-93	19-A9	AA-AA
44	+10	7A-97	79-1A	79-8F	7F-9A	–	A9-56	7C-9D	89-39	A9-56
45	ENTER	7A-56	79-0B	–	7F-8A	–	A9-A5	7C-9E	–	A9-A5
46	TITLE	7A-86	–	–	–	–	6A-56	7C-B1	9B-2B	6A-56
47	^	7A-98	–	–	–	7A-10	A9-66	7C-B4	85-35	A9-66
48	MENU	7A-9C	–	–	–	7A-12	A6-66	7C-B2	80-30	A6-66
49	<	7A-53	–	–	–	–	99-66	7C-B5	87-37	99-66
50	SELECT	–	–	–	–	–	A5-66	7C-B8	82-32	A5-66
51	>	7A-52	–	–	–	–	59-66	7C-B6	88-38	59-66
52	RETURN	7A-85	–	–	–	–	5A-A9	7C-B7	81-31	5A-A9
53	v	7A-99	–	–	–	7A-11	69-66	7C-B3	86-36	69-66
54	DISPLAY	–	79-0A	79-A5	7F-9E	–	55-AA	7C-A6	92-22	55-AA

■ REMOTE CONTROL RAV16 (RX-V350: B, G, E models / HTR-5730: G, E models)

The schematic diagram is not available.



CUSTOM CODE: 7A

Key No.	Key Name	Data Code	Key No.	Key Name	Data Code
1	DVD	C1	18	VOLUME +	1A
2	D-TV/CBL	54	19	STEREO	56
3	VCR	0F	20	PROG –	59
4	POWER	1F	21	MUTE	1C
5	CD	15	22	PROG +	58
6	MD/CD-R	C9	23	LEVEL	86
7	V-AUX	55	24	VOLUME –	1B
8	6CH INPUT	87	25	SET MENU	9C
9	TUNER	16	26	∧	98
10	A/B/C/D/E	12	27	———	———
11	PRESET –	11	28	———	———
12	PRESET +	10	29	———	———
13	/ DTS	90	30	∨	99
14	6.1 / 5.1	97	31	–	53
15	NIGHT	95	32	+	52
16	SLEEP	57	33	———	———
17	TEST	85			

RX-V350/HTR-5730

RX-V350/HTR-5730

YAMAHA